TelevisGo v10

The expandable supervisor with FREE Studio Plus applications IEC 61131-3

User Manual

03/2024





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Safety information



Important information

Read these instructions carefully and visually inspect the equipment to familiarize yourself with the controller before installing it and/or putting it into operation or servicing it. The following warning messages may appear anywhere in this documentation or on the equipment to warn of potential dangers or to call attention to information that can clarify or simplify a procedure.



The addition of this symbol to a danger warning label "Danger" or "Warning" indicates the existence of an electrical danger that could result in personal injury should the user fail to follow the instructions.



This is the safety warning symbol. It is used to warn the user of the potential dangers of personal injury. Observe all the safety warnings that follow this symbol to avoid the risk of serious injury or death.

A DANGER

DANGER indicates a dangerous situation that, unless avoided, will result in death or cause serious injuries.

A WARNING

WARNING indicates a potentially dangerous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a potentially dangerous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE used in reference to procedures not associated with physical injuries.

Note

Electrical equipment must be installed, used and repaired by qualified personnel only. Schneider Electric and Eliwell do not accept responsibility for any consequences resulting from the use of this material.

A qualified person is someone who has specific skills and knowledge regarding the structure and the operation of electrical equipment and who has received safety training on how to avoid the inherent dangers.

Personnel qualification

Only personnel with suitable training and an in-depth knowledge and understanding of the content of this manual and other documentation relating to the product in question are authorized to work on and with this product.

The qualified employee must be capable of identifying any hazards that may arise from the parameters, changing the value of the parameters and from using mechanical, electrical and electronic equipment in general. Plus, they must be familiar with accident prevention standards, provisions and regulations, which must be observed while the system is being designed and implemented.

Permitted use

The device must be installed and used in accordance with the instructions provided. In particular, parts carrying dangerous voltages must not be accessible under normal conditions.

Televis**Go** is a supervisor for monitoring, recording and handing data, remote viewing and maintenance of the connected devices for refrigeration systems used in the processing, storage and distribution of foodstuffs.

It must be adequately protected from water and dust with regard to the application, and must only be accessible using tools or a keyed locking mechanism.

Improper use

Any use other than that described in the previous paragraph, "Permitted use", is strictly prohibited.

The functional security protection devices, required by international or local laws, must be installed outside this device.

Liability and residual risks

Electrical equipment must be installed, used and repaired by qualified personnel only.

The liability of Schneider Electric and Eliwell is limited to the correct and professional use of the product according to the directives referred to herein and in the other supporting documents, and does not cover any damage (including but not limited to) resulting from the following causes:

- unspecified installation/use and, in particular, in contravention of the safety requirements of the legislation in force in the country of installation and/or specified in this document;
- use on equipment which does not provide adequate protection against electrocution, water and dust in the actual installation conditions;
- use on equipment which allows access to dangerous components without the use of tools and/or a keyed locking mechanism;
- · tampering with and/or modification of the product;
- installation/use on equipment that does not comply with the regulations in force in the country of installation.

Disposal



The equipment (or product) must be subjected to separate waste collection in compliance with the local legislation on waste disposal.

About the book

Purpose of the document

This document describes the Televis**Go** controller for monitoring, control and remote management of commercial refrigeration installations, as well as the relative software and installation and wiring instructions.

Use this document to:

- Install and use the TelevisGo device
- Familiarize yourself with the functions of the TelevisGo to be used

Note: read this document and all related documents carefully before installing, operating or maintaining the device.

Note regarding validity

This document is valid for the Televis Go device version 10.1.7 and later.

The characteristics illustrated in this manual should be identical to those which can be consulted online. In line with our policy of continuous improvement, we may revise the contents to improve clarity and accuracy. If you note any discrepancies between the manual and the information consulted online, please use the latter as a reference.

Available Languages of this Document

This document is available in the following languages:

- Italian (TGO01-01IT)
- English (TGO01-01EN)
- Spanish (TGO01-01ES)
- German (TGO01-01DE)
- French (TGO01-01FR)
- Russian (TGO01-01RU)

Information on Non-Inclusive or Insensitive Terminology

As part of a group of responsible, inclusive companies, we are updating our communications and products that contain non-inclusive or insensitive terminology. Until we complete this process, however, our content may still contain standardized industry terms that may be deemed inappropriate by our customers.

Related documents

Publication title	Reference code
TelevisGo Migration Tool manual	TGOMT
TelevisGo Modbus_TCP BMS Config Tool manual	9MA00270 (IT) 9MA10270 (EN)
TelevisGo Windows 10 6L technical data sheet	9IS54762
TelevisGo Windows 10 AR technical data sheet	9IS54763
SerialAdapter 6L technical data sheet	9IS64615
TelevisGo Windows Spare SSD 6L technical data sheet	9IS64599
EthernetAdapter 10L technical data sheet	9IS54871

The available technical documentation and other technical information can be downloaded from the website: www.eliwell.com

Product related information

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or
 installing or removing any accessories, hardware, cables or wires.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- · Before powering the device back up, fit back and fix all the covers, hardware components and wiring.
- · Verify the earthing connections on all earthed devices.
- Use this device and all connected products only at the specified voltage.

Failure to follow these instructions will result in death or serious injury.

LOSS OF CONTROL

- Carry out a new network scan every time the type, configuration or number of controllers monitored is changed.
- The installation designer must consider the potential failure modes of the control circuit and, for some critical control functions, provide a means for reaching a safe condition during and after a circuit failure. Examples of critical control functions are the emergency stop and end of travel stop, power supply cut-off and restarting.
- Redundant control circuits that are separate from the TelevisGo must be provided for critical control functions.
- The control circuits can incorporate communication equipment such as proxy modems or network gateways. Keep in mind the implications of transmission delays or sudden connection failures.
- Comply with all standards regarding accident protection and local applicable safety directives.
- Every implementation of this device must be tested individually and completely in order to check its proper operation before putting it into service.
- Do not disassemble, repair or modify this equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Communication between Televis**Go** and **Serial**Adapter/**Ethernet**Adapter is susceptible to electromagnetic interference and the transmission of alarm signals may not be possible.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- · Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- · Do not use this equipment for safety-critical functions.
- Do not connect wires to unused terminals and/or terminals indicated as "No Connection (N.C.)".
- Install TelevisGo and SerialAdapter in an environment in which EMC disturbance is below the limits specified in standard EN61000-6-1 (residential, commercial and light industry environments).
- Configure the "LifeTest" function to make sure the TelevisGo is active. Non-receipt of the periodic email indicates
 a malfunction of the TelevisGo or the email sending service.
- The load equivalent to all the bus RS485 nodes should not exceed 30 Unit Load (for the definition of Unit Load refer to standard TIA/EIA-485-A).
- For the connection to the supervision system, use a specific shielded "twisted pair" cable (for example: BELDEN cable model 8762).

Failure to follow these instructions can result in death, serious injury, or equipment damage.



HAZARD OF OVERHEATING AND/OR FIRE

Install and use the equipment exclusively in a protected environment, to prevent direct exposure to sunlight and atmospheric agents.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

The pages on the website have been designed to set up and monitor the system and to access the equipment from a web browser, via a web server.

Always use a secure protocol (HTTPS) for installation of a TLS certificate generated by a trusted CA (Certification Authority).

UNINTENDED EQUIPMENT OPERATION

Only use software approved by Eliwell when using this equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Take the suitable care and precautions when using this product as a control device, to avoid unforeseen consequences resulting from the operation of the controlled machine, variations in controller status or changes to the machine data memory or operating parameters.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Before attempting to control the application remotely, you must be perfectly familiar with the application and the machine.
- Take the necessary precautions to guarantee that you are working on the anticipated machine remotely by using clear identification documentation within the application and the corresponding remote connection.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Eliwell adheres to industry best practices in the development and implementation of control systems. This includes a Defense-in-Depth approach to guarantee an industrial control system. This approach protects the controller with one or more firewalls to limit access exclusively to authorized personnel and protocols.

A WARNING

UNAUTHORISED ACCESS AND SUBSEQUENT NETWORK INTRUSION

- Assess whether the room or the machines are connected to the critical infrastructure and, if so, take suitable
 preventative measures, based on "defense-in-depth" strategy, before connecting the automation system to any
 network.
- Minimize the number of devices connected to a network.
- Isolate your industrial network from other networks within the company.
- Protect any network from unintentional access using firewalls, VPNs or other proven security measures.
- Monitor activity within the systems.
- Prevent direct access or direct connection to the devices concerned by unauthorized individuals or unauthorized actions.
- Prepare a restore plan that includes system backup and process information.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Flammable refrigerant gases

This equipment is designed to operate in non-hazardous locations and where applications which generate (or could potentially generate) hazardous environments have been isolated. Install this equipment only in areas and with applications known to be constantly free from hazardous atmospheres.

RISK OF EXPLOSION

- Install and use this equipment in non-hazardous locations only.
- Do not install or use this equipment in applications which could generate hazardous atmospheres, such as those which use flammable refrigerants.

Failure to follow these instructions will result in death or serious injury.

For information regarding the use of control equipment in applications capable of generating hazardous materials, please contact the relevant national regulatory bodies or certifying authorities.

Before starting

Do not use this product on machines which do not have effective workstation protection. A lack of effective workstation protection on a machine may result in serious injury to the machine operator.

EQUIPMENT WITHOUT PROTECTION

Do not use this software or the relative automation equipment on a device lacking protection on the workstation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

This automation equipment and the relative software are used to control various industrial and commercial processes.

Only the user, the machine manufacturer or the system integrator can be up-to-date in terms of all the conditions and factors present when preparing, starting up and servicing the machine and therefore only they are able to determine which automation equipment and corresponding safety devices and interlocks can be used correctly.

When the automation and control equipment and the relative software are selected for a particular application, the applicable local and national standards and regulations must also be taken into consideration. Furthermore, the manual for accident prevention of the National Safety Council (recognized nationally in the United States of America) provides very useful information.

Before putting the equipment into service, make sure that all the safety devices and appropriate mechanical/electrical interlocks relating to the protection of the workstation have been installed. All the interlocks and safety devices relating to workstation protection must be coordinated with the corresponding software programming and automation instruments.

Start-up and testing

Before using the electric control and automation equipment for normal operation after installation, the system should be subjected to a start-up test by qualified personnel to make sure the equipment is functioning correctly. It is important to carry out the preparations for this check and that sufficient time is provided in order to completely and satisfactorily perform the test.

DANGER WHEN STARTING-UP THE EQUIPMENT

- · Check that all installation and preparation procedures have been completed.
- Before performing the operating tests, remove all the locks or other temporary retaining devices used when shipping the device components.
- · Remove any tools, measuring instruments and debris from the equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Perform all the start-up tests recommended in the equipment documentation. Conserve all equipment documentation for future consultation.

The custom software must be tested in a simulated environment as well as in the real environment.

Check that the completed system is free of short circuits and that the temporary earth system is not installed in compliance with local standards (for example the National Electrical Code in the US). If it is necessary to perform high potential voltage tests, comply with the recommendations provided in the equipment documentation in order to avoid damaging the device.

Before powering the equipment:

- · Close the door in the equipment casing.
- Remove all the temporary earth systems from the incoming power supply lines.
- Perform all the start-up tests recommended by the manufacturer.

Introduction

Contents

This section includes the following topics:

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Description

Televis**Go** is a supervisor for monitoring, recording and handing data, remote viewing and maintenance of the connected devices for refrigeration systems used in the processing, storage and distribution of foodstuffs.

Televis**Go** records data, manages alarms and provides remote access to network device data to easily monitor HACCP data and schedule maintenance activities.

It has the following connectivity systems:

- Ethernet communication interface (built-in)
- GSM modem (external see "Compatible modems")
- 4 USB ports
- 4 RS232 serial ports

TelevisGo can be accessed remotely via a web browser without the need to install additional software (see "Supported browsers").

The multilingual user interface supports 12 languages (Italian, English, Spanish, German, French, Russian, Dutch, Polish, Portuguese, Chinese, Turkish and Japanese) but other languages can be installed at a later time.

Televis **Go** is a software platform which can be updated with new functions and offers the option of transferring data to centralized systems.

The license is used to manage up to a maximum of 224 devices and 3000 acquisition points.

As Administrator, all aspects of the system can be integrally controlled via remote access (see "Configuring the Televis**Go**").

Models

The available models are listed below:

Product	Description	no. of devices (maximum)
TGODXE101ER0K	TelevisGo v10 LE /10 KIT SerialAdapter	10
TGODXE301ER0K	TelevisGo v10 LE /30 KIT SerialAdapter	30
TGODXE601ER0K	TelevisGo v10 LE /60 KIT SerialAdapter	60
TGODXE101E00K	TelevisGo v10 /10 KIT SerialAdapter	10
TGODXE301E00K	TelevisGo v10 /30 KIT SerialAdapter	30
TGODXE301E02K	TelevisGo v10 /30 KIT SerialAdapter (AR)	30
TGODXE601E00K	TelevisGo v10 /60 KIT SerialAdapter	60
TGODXE601E02K	TelevisGo v10 /60 KIT SerialAdapter (AR)	60
TGODXE1H1E00K	TelevisGo v10 /100 KIT SerialAdapter	100
TGODXE2H1E00K	TelevisGo v10 /224 KIT SerialAdapter	224

Accessories available

A A DANGER

RISK OF ELECTRIC SHOCK, FIRE OR ARC FLASH

Only connect compatible accessories to the device.

Failure to follow these instructions will result in death or serious injury.

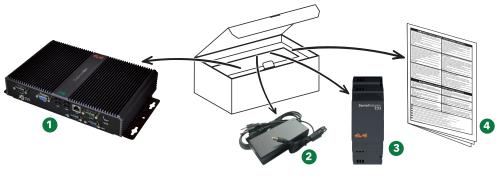
Contact a representative Eliwell for further information regarding compatible accessories.

Depending on your own applications, the following accessories may be purchased separately:

Accessory	Description	
GSM modem	 RS232-interface GSM modem powered by SIEMENS TC35-type technology "Four faith F2116" model (product code SAMGPRS40AL00) 	
	Must be connected to COM3 or COM4.	
Serial Adapter	Module with RS232 / RS485 interface. Must be connected to COM1 or COM2 .	
EthernetAdapter	Module with Ethernet / RS485 interface. Ethernet Adapter supports device networks with Modbus protocol.	
Bus Adapter	Device with TTL/RS485 communication interface for connecting Eliwell controllers to the RS485 fieldbus.	

Pack Contents

The TelevisGo pack contents include:



Label	Description
1	Televis Go device.
2	Power supply unit and power cable.
3	SerialAdapter device.
4	Televis Go technical data sheet.

Languages supported

The software features the following languages:

- Italian
- English
- Spanish
- German
- French
- Russian
- Dutch
- Polish
- Portuguese
- Chinese
- Turkish
- Japanese

Browser

Browsers supported

Platform	Browser	Minimum version
	Google Chrome	98
Personal Computer	Microsoft Edge	98
	Safari	15.4
Mobile	Android browser	116
	Google Chrome for Android	116
	Safari for iOS	15.4

Browsers not supported

Platform	Browser	Minimum version
Personal Computer	Firefox	94
	Firefox for Android	116
Mobile	Samsung Internet	18
	Opera mobile	73

Updating the application

The cache settings may affect how the new system version loads.

NOTICE

INOPERABLE DEVICE

Clear the history for the browser used to access the system after an application update. Failure to follow these instructions can result in equipment damage.

Types of network that can be monitored

Communication between Televis**Go** and **Serial**Adapter is susceptible to electromagnetic interference and the transmission of alarm signals may not be possible.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Install TelevisGo and SerialAdapter in an environment in which EMC disturbance is below the limits specified in standard EN61000-6-1 (residential, commercial and light industry environments).
- Configure the "LifeTest" function to make sure the TelevisGo is active. Non-receipt of the periodic email indicates a malfunction of the TelevisGo or the email sending service.
- The load equivalent to all the bus RS485 nodes should not exceed 30 Unit Load (for the definition of Unit Load refer to standard TIA/EIA-485-A).
- For the connection to the supervision system, use a specific shielded "twisted pair" cable (for example: BELDEN cable model 8762).

Failure to follow these instructions can result in death, serious injury, or equipment damage.

TelevisGo has been approved for the following networks:

- RS232/RS485 networks which use the SerialAdapter module as a gateway.
- Ethernet/RS485 networks which use the LanAdapter/EthernetAdapter module as a gateway.

Signal propagation in an Ethernet network depends on bus traffic, making access times to the **Lan**Adapter or the **Ethernet**Adapter non-deterministic and potentially influencing Televis**Go** access time to the various resources with possible No-Link.

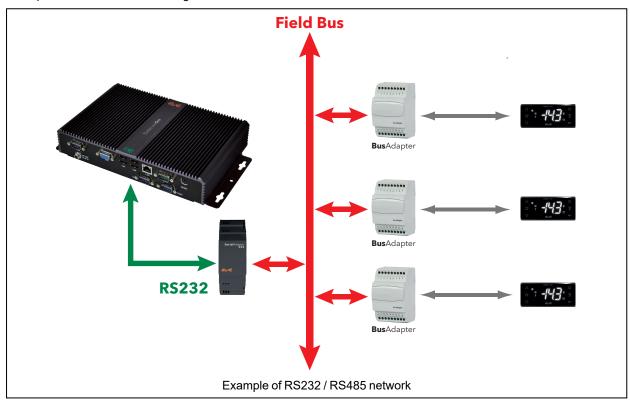


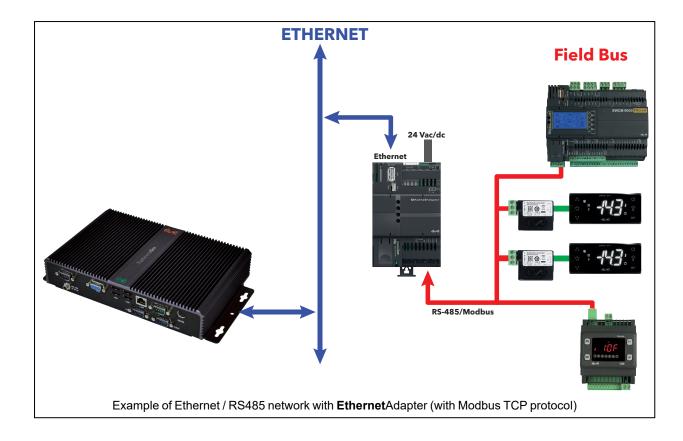
INOPERABLE DEVICE

Eliwell guarantees the correct operation of networks using a maximum of 10 LanAdapter devices or 10 EthernetAdapter devices.

Failure to follow these instructions can result in equipment damage.

Examples of usable networks are given below:





Compatible modems

TelevisGo is compatible with RS232-interface GSM modems:

- powered by SIEMENS TC35-type technology.
- "four faith F2116" model (product code SAMGPRS40AL00).

NOTICE

INOPERABLE DEVICE

Make sure the PIN code on the Modem SIM card is disabled.

Failure to follow these instructions can result in equipment damage.

GSM modem connection can be performed directly via RS232.

Compatible devices

The list of compatible devices and the corresponding drivers is available on the website www.eliwell.com.

Hardware compatible with TelevisGo v10

The Televis**Go** v10 software is compatible with and can be installed on all models with the code **TGODQE**...... and **TGODXE**......

Configuring the TelevisGo

Users should be aware of the following:

- The default time zone is GMT+1
- TelevisGo requires the creation of secure passwords for all users. On first access, only the "Administrator" user will be present.

To access, enter **Administrator** as the user and **0 (zero)** as the default password and you will be redirected to the password change page.

Disconnect the USB devices after every maintenance procedure.

UNAUTHORISED ACCESS

Do not give the password to unauthorized individuals or non-qualified personnel.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Carefully consider the implications of giving access to other people.

NOTICE

LOSS OF FUNCTION

Loss of the Administrator user password prevents access to system configuration. The password cannot be recovered.

Failure to follow these instructions can result in equipment damage.

NOTE: in the event of a lost password, contact Eliwell Technical Support to have it reset. The procedure requires Technical Support to be able to connect to Televis**Go** remotely.

NOTE: a secure password is one that has not been shared with or given to unauthorized personnel, and that does not contain personal or otherwise obvious information. Do not exceed 50 characters and only use alphanumeric characters.

NOTE: The password must contain:

- at least 8 characters
- 1 numerical digit (0, 1, ..., 9)
- 1 uppercase letter (A, B, ..., Z)
- 1 lowercase letter (a, b, ..., z)
- 1 special character (\|¬!`!" £\$%^&*() +-=[]{};:'@#~<>,./?)

Televis**Go** is dedicated exclusively to executing the pre-installed application. Installing any other type of application may negatively affect the running of the entire system. The only installation permitted is anti-virus software.

NOTICE

INOPERABLE DEVICE

- Do not install any software on the TelevisGo device with the exception of an anti-virus program.
- Make sure USB storage devices are disconnected to ensure the correct reboot of the computer.
- Make sure the anti-virus program installed does not block the TCP/UDP ports used by TelevisGo.
- Make sure the anti-virus program installed does not conflict with TelevisGo.
- Make sure the actions performed by the anti-virus program do not impact system performance.
- Do not inhibit active TelevisGo services.
- Do not delete the "Eliwell" folder in the main directory on the "C:\" drive, nor any of the files or folders stored in it.

Failure to follow these instructions can result in equipment damage.

The user is responsible for choosing the type of anti-virus software to be installed.

TelevisGo cybersecurity

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This section includes the following topics:

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Overview

This Eliwell product features functions that enable I.T. security.

These functions are come in a default status and can be configured according to your own installation requirements.

NOTE: deactivating or changing the settings for these individual functions can positively or negatively affect the overall strength of the device security and ultimately, the security-related behavior of the network.

It is also necessary to observe best practices in order to guarantee advanced system protection and ensure the security of the system as a whole.

For more information, please refer to: "Recommended Cybersecurity Best Practices" (English language only).

Eliwell adheres to industry best practices in the development and implementation of control systems. This includes a Defense-in-Depth approach to guarantee an industrial control system. This approach protects the controller with one or more firewalls to limit access exclusively to authorized personnel and protocols.

A WARNING

UNAUTHORISED ACCESS AND SUBSEQUENT NETWORK INTRUSION

- Assess whether the room or the machines are connected to the critical infrastructure and, if so, take suitable
 preventative measures, based on "defense-in-depth" strategy, before connecting the automation system to any
 network.
- · Minimize the number of devices connected to a network.
- · Isolate your industrial network from other networks within the company.
- Protect any network from unintentional access using firewalls, VPNs or other proven security measures.
- Monitor activity within the systems.
- Prevent direct access or direct connection to the devices concerned by unauthorized individuals or unauthorized actions.
- · Prepare a restore plan that includes system backup and process information.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

User management

User management is used to create groups of users with configurable authorizations.

Access can be limited to a few functions by assigning individual users to a group.

There are 5 default groups:

- Administrators: editing rights for all functions
- · Operators/Users/Services: editing rights for selected functions
- · Readers: viewing rights for selected functions

Only an administrator (Administrator) or authorized user can add, edit or remove users and groups.

List of protocols and ports managed

Enabling protocols or ports can lead to cyber security issues. For further information, please refer to: "Recommended Cybersecurity Best Practices" (English language only).

The following is a list of ports/services that are enabled and can be configured:

- Webserver: port 443 (HTTPS)
- Modbus TCP: 502
- XML: 8080 (data transfer)

The following is a list of enabled security methods:

- Firewall enabled to prevent external access to port 80
- Remote Desktop disabled: port 3389/TCP RDP
- Port 139/TCP NetBios closed
- Port 137/UDP NetBios closed
- Port 445/TCP SMB closed

Operating System Password

Overview

On first access, you will be prompted to change the operating system password for security reasons.

Carefully consider the implications of giving access to other people.

UNAUTHORISED ACCESS

- · Change the default password immediately, replacing it with a new and secure password.
- Do not give the password to unauthorized individuals or non-qualified personnel.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTE: a secure password is a password which has not been shared or circulated amongst unauthorized personnel and which does not contain personal or obvious information. Furthermore, a combination of upper-case and lower-case letters and numbers offers greater security. Choose a password that is at least seven characters long.

NOTICE

LOSS OF FUNCTION

Loss of the Administrator user password prevents access to system configuration. The password cannot be recovered.

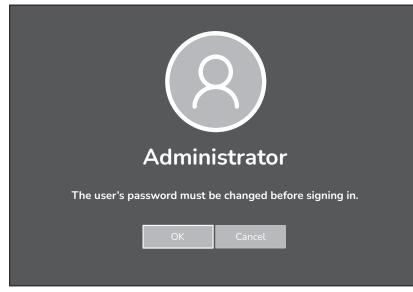
Failure to follow these instructions can result in equipment damage.

NOTE: Adopt cyber security best practices (for example: minimal privileges, separation of functions, etc.) to prevent unauthorized exposure, loss of or changes to data and registries, the interruption of services or accidental operation.

NOTE: Refer to company rules concerning password expiry.

Set Password at First Access

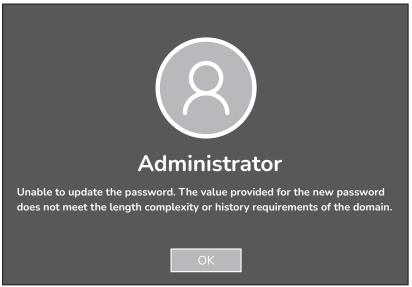
1. Switch on Televis Go. The following screen will appear:



2. Click "OK". The following screen will appear:

Administrator	
Password	
New password	
Confirm password	
Create a password reset disk	
Cancel	

- 3. Enter the current Password: Leave the box empty
- 4. Enter the New Password (at least 8 characters)
- 5. Enter the New Password to confirm
- If the Password does not meet the requirement for the minimum number of characters, the following screen will appear:



NOTE: a secure password is one that has not been shared with or given to unauthorized personnel, and that does not contain personal or otherwise obvious information. Do not exceed 50 characters and only use alphanumeric characters.

NOTE: The password must contain at least 8 characters. Please refer to the Microsoft website for further information (https://learn.microsoft.com/en-us/windows/security/threat-protection/security-policy-settings/password-must-meet-complexity-requirements):

- 1 numerical digit (0, 1, ..., 9)
- 1 uppercase letter (A, B, ..., Z)
- 1 lowercase letter (a, b, ..., z)
- 1 special character (||`!" \$%^&*()_+-=[]{};:'@#~<>,./?)

I.T. secure configuration recommendations

There are several recommendations available for secure configuration of the device.

- Do not add more users than those requiring access and evaluate the system requirements before allowing users access to critical pages, for example **Firewall management** or **Device settings**.
- Limit the number of IP addresses that can access the TelevisGo.



POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, STATE AND SECURITY

- Change the default passwords to prevent unauthorized access to device settings and information.
 Deactivate unused ports/services and default accounts, if possible, to minimize communication channels for damaging attacks.
- Position the network devices behind various cyber defense levels (firewalls, network segmenting and network intrusion detection and protection systems).
- Adopt cyber security best practices (for example: minimal privileges, separation of functions, etc.) to prevent
 unauthorized exposure, loss of or changes to data and registries, the interruption of services or accidental
 operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTE: the table below contains the risks and best practices associated with unprotected protocols. We strongly recommend adhering to these best practices.

Unprotected protocols	Risks	Best practices	
SMTP	 malware threat unauthorized access to data data loss threat email content transferred to normal text cross-site scripting management of authentication and malfunctioning session cross-site request forgery interception and tampering 	 For publication: select SMTP with SSL/TLS or SMART TLS configured for publication For network configuration: disable HTTP select HTTPS for network connections For publication: do not select HTTP select HTTPS with authentication 	
FTP	 FTP brute-force attack packet sniffing spoofing attack user credentials may be compromised, as the entire authentication is carried out in unencrypted text 	 Select HTTPS with authentication For publication: do not use FTP select HTTP with authentication or SMPT with SSL/TLS or SMART TLS configured for publication 	
Modbus TCP/IP	 message interception information acquisition arbitrary command release unauthorized users can harvest and/or tamper with device configurations 	 For Modbus device communications: limit access to Modbus communications using the Modbus TCP/IP filter disable the Modbus port for each network interface when not in use 	

Mechanical installation

Contents

This section includes the following topics:

Before starting	27
Disconnection from the power supply	27
Operating environment	28
Comments concerning installation	28
Mechanical dimensions	29
Installation	29

Before starting

Before installing your system, read this chapter carefully.

Only the user, the machine manufacturer or the integrator can be familiar with all the conditions and factors present during installation and set up, preparing, starting-up and servicing the machine and therefore only they are able to determine which automation equipment and relative safety devices and interlocks can be used in a correct manner.

When the automation and control equipment and any other relative equipment or software are selected for a particular application, the applicable local, regional and national standards and regulations must also be taken into consideration. Take extra care to comply with safety standards, electrical requirements and other statutory provisions applied to your

own machine.

A WARNING

REGULATORY INCOMPATIBILITY

Make sure that all equipment used and the systems designed comply with all applicable local, regional and national laws.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Disconnection from the power supply

Assemble and install all options and modules before installing the control system.

Before dismantling the equipment, remove the control system from the wall or panel.

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or
 installing or removing any accessories, hardware, cables or wires.
- · Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- · Before powering the device back up, fit back and fix all the covers, hardware components and wiring.
- Verify the earthing connections on all earthed devices.
- Use this device and all connected products only at the specified voltage.

Failure to follow these instructions will result in death or serious injury.

Operating environment

This equipment is designed to operate in non-hazardous locations and where applications which generate (or could potentially generate) hazardous environments have been isolated. Install this equipment only in areas and with applications known to be constantly free from hazardous atmospheres.

RISK OF EXPLOSION

- Install and use this equipment in non-hazardous locations only.
- Do not install or use this equipment in applications which could generate hazardous atmospheres, such as those which use flammable refrigerants.

Failure to follow these instructions will result in death or serious injury.

For information regarding the use of control equipment in applications capable of generating hazardous materials, please contact the relevant national regulatory bodies or certifying authorities.

A WARNING

UNINTENDED EQUIPMENT OPERATION

Install and use this equipment in compliance with the conditions described in the "Technical data" section of this document.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Comments concerning installation

UNINTENDED EQUIPMENT OPERATION

- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Power line and output circuits must be wired and fused in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions.
- Do not disassemble, repair, or modify this equipment.

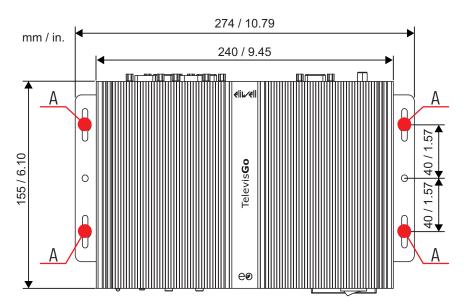
Failure to follow these instructions can result in death, serious injury, or equipment damage.

For the mechanical dimensions, refer to "Mechanical dimensions".

Mechanical dimensions

The mechanical characteristics of TelevisGo are:

- Length: 274 mm (10.79 in.)
- Height: 155 mm (6.10 in.)
- Depth: 52 mm (2.05 in.)

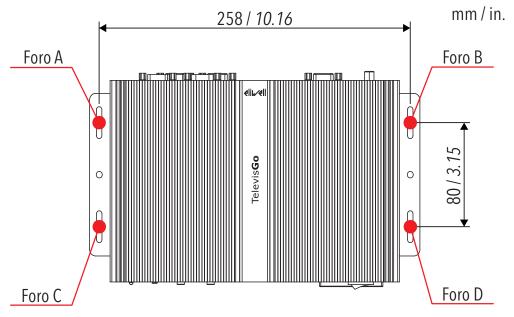


Installation

Televis**Go** is intended for wall- or panel-mounting (on a flat surface). **NOTE**: Televis**Go** is only suitable for indoor use. DO NOT install it outdoors.

How to install/uninstall the controller

To install, secure the device to the wall/panel with 4 screws (not supplied) in line with the holes illustrated in the figure below:



Note: leave the area around the slits clear to allow air recirculation and device cooling.

Electrical connections

Contents

This section includes the following topics:

Best wiring practices	. 31
Hardware for TelevisGo Windows 10 64-bit	34
Connecting a network	35

Best wiring practices

Warnings

The following information describes the guidelines for wiring and the practices to follow when using the Televis**Go** device.

🗛 🗛 DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or
 installing or removing any accessories, hardware, cables or wires.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Before powering the device back up, fit back and fix all the covers, hardware components and wiring.
- · Verify the earthing connections on all earthed devices.
- Use this device and all connected products only at the specified voltage.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF OVERHEATING AND/OR FIRE

Install and use the equipment exclusively in a protected environment, to prevent direct exposure to sunlight and atmospheric agents.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Install TelevisGo, SerialAdapter and EthernetAdapter in an environment in which EMC disturbance is below the limits specified in standard EN61000-6-1 (residential, commercial and light industry environments).
- Configure the "LifeTest" function to make sure the TelevisGo is active. Non-receipt of the periodic email indicates
 a malfunction of the TelevisGo or the email sending service.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

LOSS OF CONTROL

- Carry out a new network scan every time the type, configuration or number of controllers monitored is changed.
- The installation designer must consider the potential failure modes of the control circuit and, for some critical control functions, provide a means for reaching a safe condition during and after a circuit failure. Examples of critical control functions are the emergency stop and end of travel stop, power supply cut-off and restarting.
- Redundant control circuits that are separate from the TelevisGo must be provided for critical control functions.
- The control circuits can incorporate communication equipment such as proxy modems or network gateways. Keep in mind the implications of transmission delays or sudden connection failures.
- Comply with all standards regarding accident protection and local applicable safety directives.
- Every implementation of this device must be tested individually and completely in order to check its proper
 operation before putting it into service.
- Do not disassemble, repair or modify this equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Wiring guidelines

Observe the following standards when wiring the TelevisGo device:

- Keep the communication wiring separate from the power wiring. Keep these two types of cables in separate conduits.
- · Check that the operating conditions and surroundings comply with the specification values.
- Use wires of the correct diameter and suited to the voltage and current requirements.
- Use copper conductors (required).
- Use twisted-pair shielded wires for networks and field buses.

Use shielded wires, correctly earthed for the communication connections. If shielded wires cannot be used for these connections, the electromagnetic interference may deteriorate the signal. Deteriorated signals can result in the device, modules or attached equipment operating incorrectly.

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Use shielded cables for all communication signals.
- Earth the wire shields for all communication signals in a single point.
- The signal cables (communication and relative power supplies) of the device must be laid separately from the power cables.
- Reduce the length of the connections as far as possible and avoid winding them round electrically connected parts.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Connections

The TelevisGo device has the following communication ports:

- 4 RS232 serial ports
- 1 RJ45 Ethernet port

Take extra care when performing serial line connections. Incorrect wiring may lead to faulty operation or breakdown of the equipment.

RS232/RS485

Connection is assured via the **Serial**Adapter and the system device must be connected using a cable with conductors of cross-section 0.5 mm²:

- Use a shielded "twisted pair" cable specifically for RS485. For laying wires, comply with the indications given in standard EN 50174 on information technology wiring. Extra care must be taken in separating data transmission circuits from power lines.
- The length of the RS485 network connected directly to the device is 1200 m (in compliance with ANSI TIA/EIA RS485-A and ISO 8482:1987 (E)).
- Single terminal board with 3 conductors which must all be used ("+" and "-" for the signal; "G" for 0 V earth signal).
- The network must have BUS DAISY CHAIN topology and must be equipped with 120 Ω 1/4 W electrical termination between the "+" and "-" terminals and each of the two ends of the BUS, or enable those already provided on the devices.

Ethernet

The Ethernet connection is used by Televis**Go** to communicate on an Ethernet network via TCP/IP protocol. The main Ethernet features are:

- Protocol: Modbus TCP/IP
- Type of connector: RJ45
- Driver: 10 M / 100 M with auto-negotiation
- · Cable type: shielded

Specific considerations for handling

When handling the equipment, use caution to avoid damage caused by electrostatic discharge. In particular, contact with uncovered connectors is likely to damage the controller due to electrostatic discharge.

A WARNING

UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE

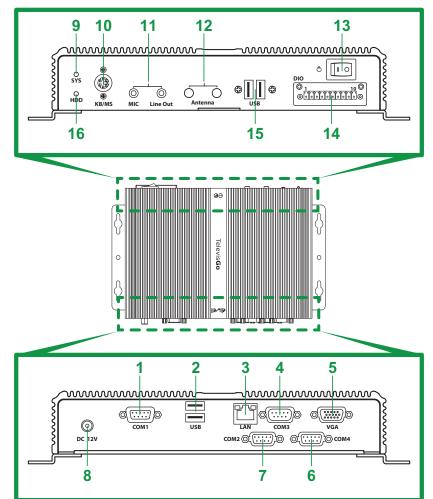
- · Store the equipment in the protective packaging until ready for installation.
- Before handling the equipment, always discharge the static electricity from the body by touching an earthed surface or type-approved antistatic mat.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Before any operations, check that the device is connected to a suitable external power supply. Please refer to "Power supply".

Hardware for TelevisGo Windows 10 64-bit

The Televis **Go** connectors are as follows:



Number	Label	Description
1	COM1	COM1 (RS232) serial port - for Serial Adapter
2	USB	2x USB 2.0 ports
3	LAN	Ethernet port (LAN RJ45)
4	COM3	COM3 (RS232) serial port - for external modem
5	VGA	VGA connector for external monitor connection
6	COM4	COM4 (RS232) serial port - for external modem
7	COM2	COM2 (RS232) serial port - for Serial Adapter
8	DC 12V	12 Vdc power supply connector
9	SYS	Power LED
10	KB/MS	PS2 connector for external keyboard connection
11	MIC - Line out	Audio minijack socket
12	Antenna	Not used
13	Ċ	ON/OFF button
14	DIO	Not used
15	USB	2x USB 3.0 ports
16	HDD	HDD operating LED

Connecting a network

SerialAdapter, LanAdapter, EthernetAdapter or Modbus TCP modules and system devices must be connected using a cable with conductors with cross-section 0.5 mm² (see "Connections").

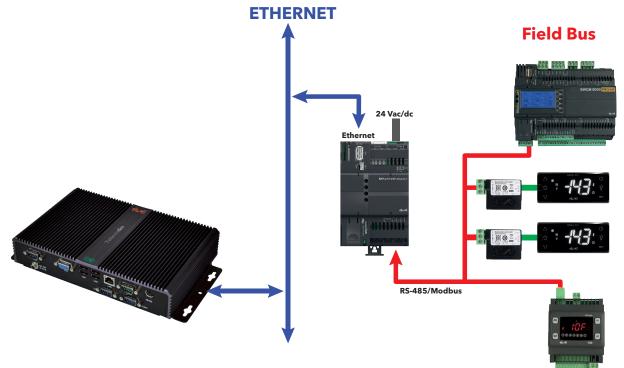
Device configuration

Before configuring a network using Televis**Go**, each device in the network must be assigned a unique address within the same serial port, **Lan**Adapter or **Ethernet**Adapter, setting the following parameters based on the device protocol used:

- Device with Micronet protocol: parameters "FAA" (0...14) and "dEA" (0...14).
- Device with Modbus protocol: parameter "Adr" (1...255).

Network connected with Ethernet / serial gateway Modbus (EthernetAdapter)

An Ethernet/RS485 network is connected via **Ethernet**Adapter as follows:



In the example the following devices were used:

- 1 EthernetAdapter
- 1 EWCM 9000 PRO-HF
- 2 BusAdapter 150 Dongle
- 2 EWNext
- 1 TelevisIn

Signal propagation in an Ethernet network depends on bus traffic, making access times to the **Ethernet**Adapter nondeterministic and potentially influencing Televis**Go** access time to the various resources with possible No-Link.

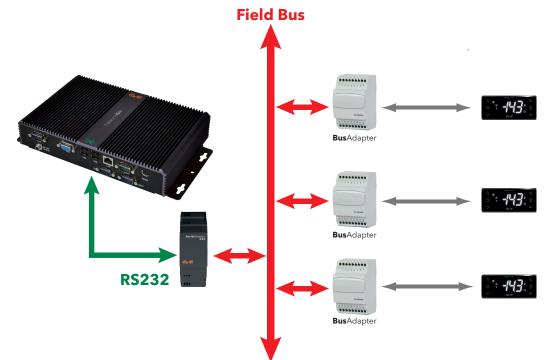
NOTICE

INOPERABLE DEVICE

If connection proves difficult, check if the right profile has been assigned to the network; if not, change it accordingly. **Failure to follow these instructions can result in equipment damage.**

Network connected with RS232

An RS232/RS485 network is connected via a SerialAdapter as follows:



In the example the following devices were used:

- 1x SerialAdapter
- 3x BusAdapter
- 3x EWNext

The **Serial**Adapter converter can only be connected to **COM1** or **COM2** as it is powered by them. Other serial accessories (modems) must be connected to serials **COM3** or **COM4**.

NOTICE

INOPERABLE DEVICE

Select the serial port which is suitable for the accessory you want to connect.

Failure to follow these instructions can result in equipment damage.

Technical specifications

Contents

This section includes the following topics:

Technical data	38
Further information	39
Power supply	39

Technical data

Feature	Description
The product also complies with the following harmonized standards:	EN 60950-1
Equipment mobility:	Mobile
Connecting to the electricity mains:	Not connected directly to the electricity mains
IP Protection rating:	IP20
Operating condition:	Continuous
Access to the installation zone:	Accessible to the operator
Pollution class:	2
Power supply:	12 Vdc - via external power supply 100240 Vac (±10 %) 50/60 Hz(*)
Environmental operating conditions:	Temperature: 040 °C (32104 °F) ^(**) Humidity: 1090% RH (non-condensing) Altitude: ≤ 2000 m (6562 ft)
Transportation and storage conditions:	Temperature: -2060 °C (-4140 °F) Humidity: 1090% RH (non-condensing)

- (*) Only use the power supply supplied or an original spare part BT111124 (100...240 Vac ±10 % 50/60 Hz 60 W). Contact Eliwell Technical Support for details.
- $^{(**)}$ In line with IEC Standard 60068-2-14 with airflow of 0.5 m/s.

UNINTENDED EQUIPMENT OPERATION

Do not exceed any of the nominal values specified in the environmental and electric characteristics tables. Failure to follow these instructions can result in death, serious injury, or equipment damage.

Further information

Feature	Description
Maximum number of devices connected:	224
Operating system:	Windows 10 64-bit IOT Enterprise LTSC 2019 (English). NOTE: the label with the license number is applied to the device
User interface:	User interface for supervision and remote control
Software update:	Remote or local
Connections:	 Ethernet (LAN) external GSM modem integrated USB
Power failures:	Non-volatile internal memory, duration 10 years
Registration interval:	Can be configured between 1 minute and 2 hours (default 15 minutes) (1)
Registration time:	1 year's worth of data guaranteed for 1500 analogue resources (if registration intervals are 15 minutes) ⁽²⁾
Maximum relative weather measurement error and weather recording error:	< 0.1 %
Climate range:	'type A' in air

⁽¹⁾ The minimum interval that can be set to make certain of re-reading all resources depends on the network response time (see "Real-time data").

⁽²⁾ The presence of digital resources or machine statuses subject to a higher or lower number of variations may change the duration of the specified archive period. In this case, refer to the archive user interface pages to check the memory capacity of your system (see "System configuration").

Power supply

The device is powered at 12 Vdc via an external power supply 100...240 Vac (±10%) 50/60 Hz.

According to the requirements of the individual unit and/or the country of installation, if the mains voltage in the country is within the operating range, the device can be connected directly to the mains.

To avoid accidentally switching off the computer, the ON/OFF button must be pressed for at least 4 seconds.

In the event of a blackout, the computer and application restart automatically when the mains power is restored.

User interface and device configuration

Contents

This section includes the following topics:

Accessing the user interface	41
LOGIN	42
Changing the password	
Page structure	44
Status bar	44
Navigation menu	45
Initial device configuration	46
Status icons	
Buttons and selectors	47

Accessing the user interface

Televis**Go** has an advanced user interface, accessed via web browser from any PC or mobile device, in order to analyze data and control all functions of the system.

To access the WEB interface, TelevisGo must be switched on and connected to the Internet.

TelevisGo will automatically open a local browser page with the device address.

The factory-set network parameters are as follows:

- <TelevisGo IP Address> = 192.168.1.50
- Subnet mask = 255.255.0.0

To ensure proper connection between the computer and Televis**Go** (Ethernet), the computer must have an IP address configured that is compatible with Televis**Go** subnet mask (normally the same Subnet mask and IP address, in which only the fourth numerical block changes to be different for each element in the sub-network).

For more detailed information and special installations, contact the network administrator.

Incorrect configuration of the network connection parameters or the router can prevent connection to the Televis**Go** and the device network via web interface.

NOTICE

INOPERABLE DEVICE

Make sure the configuration for the network connection and the router is correct.

Failure to follow these instructions can result in equipment damage.

LOGIN

The LOGIN page is used to access the system with your credentials and to select the language used by the user interface (by default this is the browser language).

ELIWELL 10 TelevisGo version 10	1 EW Software DUT 2 Software DUT 2 Software DUT 4 Software DUT 4 Software DUT 5 English Username* Software DUT 6 Software DUT Password* Software DUT 7 Software DUT 9 2 Login

The window contains:

- 1. Plant name
- Registration status (= started, = stopped) and number of services () connected to TelevisGo.
 NOTE: The number is present only if at least one service is connected.
- 3. Alarm status (\square = alarms active, \square = no alarm active, ? = non-computable alarms).
- Number of users connected to TelevisGo ().
 NOTE: The number is present only if at least one user is connected.
 NOTE: TelevisGo can be connected simultaneously to a maximum of 3 different users.
- 5. Select user interface language
- 6. Enter username
- 7. Enter password
- 8. Show password (O)
- 9. Access Televis**Go** (→)
- 10. System information

For more details relating to the icons, refer to the "Status bar" section.

NOTE: if the user enters an incorrect password, the message "Wrong password" will appear:

🥡 Wrong password 🛛 🗙

If 3 consecutive incorrect password entry attempts are made, the message "The user is temporarily disabled" will appear.



The user will be locked out for 10 minutes. At the end of this period the user can attempt login again.

Changing the password

The following password change screen opens:

Current password*	
New password *	
	<
Minimum 8 chars	Minimum 1 lowercase letter
Minimum 1 digit	 Minimum 1 uppercase letter
 Minimum 1 special char \\¬;`!" £\$%^&*()_+-=[]{ 	
Confirm password*	
	<
Expiration*	
90 days	

The window contains:

1. Current password: enter the current password.

: show/hide the password entered

New password: enter the new password.

: show/hide the password entered

Password content: list of characters that the password should contain

- at least 8 characters
- 1 numerical digit (0, 1, ..., 9)
- 1 uppercase letter (A, B, ..., Z)
- 1 lowercase letter (a, b, ..., z)
- 1 special character (\|¬':!"£\$%^&*()_+-=[]{};:'@#~<>,./?)
- 2. Confirm password: enter the new password.

C: show/hide the password entered

- 3. Expiration: select the password expiry period from pre-set options:
 - 90 days
 - 180 days
 - 1 year
 - never
- 4. **Change**: save the changes and redirect the user to the "Home" page (\Box).

NOTE: when the password expires, the user will be redirected straight to the password change page. Once it has been changed, they will be taken to the "Home" page.

Page structure

All pages in the web application have the same structure, i.e.:

- Status bar
- Navigation menu
- Work area

Status bar

The status bar is always shown at the top of the window, providing important system status information. The Status bar contains the following icons and text:

Plant name:	\int_{n}	shows the system name.
Registration status and number		Started:acquisitions are active and the total number of connected services.
of connected services:		Stopped: acquisitions are not active.
	\mathcal{D}	Active: active alarms are present.
Alarm status:	\bigcirc	Not active: no active alarms are present.
	?	Not computable: non-computable alarms are present.
Username and number of connected users:	£	 indicates the name of the user and the total number of connected users. The drop-down menu shows the following icons: = End the session for the current user and return to the Login screen = Edit the password for the current user = Set the screen shown as the default screen for the current user. This function is only available on screens that can be configured as default screens.

Navigation menu

The navigation menu is shown at the top of the page and contains the hypertext links to the different sections of the application:

		Used to go back to the default screen. For the factory setting, go back to the "Equipment" page.
Ø	Equipment	Used to: • view network devices • filter by individual devices (name, model, etc.) • configure individual devices • add new devices • add new interfaces
\bigtriangleup	Alarms	Used to: view devices in alarm mode and the relevant status acknowledge alarms, entering any notes required view detailed reports for the various alarms configure categories, actions and time intervals
	History	Used to view/configure: alarm history data archive in table form data archive in chart form energy reports in table form energy reports in chart form
**	Functions	Used to: • start/inhibit acquisition • view controller commands • view controller parameters • activate the RVD (Remote Virtual Device) function (if present for the device) • view/edit layouts
ţġ	Settings	Used to view: interfaces users and groups of users alarms (categories, actions, time intervals) scheduled actions General settings (Life Test, Alarms, Media, etc.)
	Computer	Used to: • manage network settings • update the application, functions and languages • update parameter maps, layout pages and various settings • update algorithm and device drivers • restart the application Televis Go • update the license • backup and restore the system • view the reports (.TXT) for activities carried out

Some menus have a number of associated commands listed under the menu bar (sub-menu) (example: "Alarm History", "Historical Table", ...).

Clicking a menu changes the sub-menu but not the current page.

Clicking a sub-menu heading changes the current page.

Initial device configuration

On first start-up:

- navigate to the "Equipment" page (on first start-up the page will be empty)
- click "Add device(s)"
- click "Interfaces"
- Note: the COM1 interface is pre-configured by default
- add any interfaces present in the network in addition to the COM1 interface (see Interface definition)
- press the back button
- add network devices (see Adding a device)

Status icons

The user interface illustrates the status of the system and the device network.

Acquisition status			
2	Data acquisition running.		
2	Data acquisition not running.		
O	No information on data acquisition.		
2	Start/Stop data acquisition.		
	Alarm status		
((•))	Alarm active.		
((~))	Active alarm viewed by the user.		
((•))	Alarm reset.		
((•))	Alarm has never been active.		
((0))	No information on alarm status. Note : check the data acquisition status.		
	Resource status		
湬 ,桊	Compressor: On / Off.		
	Defrost: On / Off.		
1,1-	Port: Open / Closed.		
<i>B</i> , B	Fans: On / Off.		
	Inputs and regulators		
\odot	Analogue resources.		
0	Digital resources.		
\$	Machine status.		
(((•)))	Alarms.		
	NoLink		
	NoLink: no communication with the device.		
	Filters		
	Identifies the devices on which the algorithm works.		
Ū	Identifies an input resource on which the algorithm works.		
o	Identifies an output resource on which the algorithm works.		

Buttons and selectors

Acquisition status			
2	Start/Edit	Start/edit Televis Go acquisition status.	
		Data viewing screens	
	Expand	Expand the view of all elements in a list.	
*	Collapse	Collapse the view of all elements in a list.	
3 2 2 2 2	Select all	Select all the elements in a list.	
	Deselect All	Deselect all the elements in a list.	
	Print	Exports the data in PDF format for printing.	
\checkmark	Confirm	Confirms alarm selection. Alarm icon turns from red to yellow.	
		Data archive	
	Update data	Update the data after one or more filters have been edited.	
	Data archive window	Show/hide the data selection window.	
	Profile window	Show/hide the profile management window.	
	Load selected Profile	Upload the selected profile to the Televis Go .	
	Delete selected Profile	Delete the selected profile from the Televis Go .	
	Save current profile	Save the selected profile.	
12	Time interval window	Show/hide the window used to set time intervals.	
	Interval forward	Move the interval for the data shown forward.	
K	Interval back	Move the interval for the data shown back.	
	Resources window	Show/hide the "Resources" window.	
	Select resources	Manually select the instruments and resources to view.	
	Legend window	Show/hide the window providing the colors legend (charts only).	
	Print/Export window	Show/hide the Print/Export window for the data shown.	
	Export	Export the elements shown in .csv format into a folder selected by the user.	
Network configuration			
-	Enter interface	Enter a new network interface.	
FUNCTIONS			
0.00:04 E	EWDR 985 -	Select an instrument from the network, viewing its parameters and the RVD (Remote Virtual Device), if applicable.	
8 ——	Select all	Select all the elements in a list.	
	Deselect All	Deselect all the elements in a list.	
	Expand	Expand the view of all elements in a list.	

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Apply command filter Y icon will appear. Image: Second	4	Execute	Send the command to the selected instruments.
Iter Removes me previously applied command mer. Image: Second Seco		Apply command filter	
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Image: Second	*	Collapse	Collapse the view of all elements in a list.
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Image: Second		Export profiles	Export the selected profiles.
Image: Second		Cancel filters	Cancel all filters applied.
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Edit an element (network, user, scheduled activity, time interval, etc.)	A	Add	Add an element (network, user, scheduled activity, time interval, etc.)
	*	Remove	Remove an element (network, user, scheduled activity, time interval, etc.)
		Edit	Edit an element (network, user, scheduled activity, time interval, etc.)
Save Save any changes you have made.		Save	Save any changes you have made.

	-	
0	Cancel	Cancels and exits without saving the changes made.
Q	Preview	Preview of the instruments on which the selected action will be performed.
		COMPUTER
2	Edit	Enable active page editing.
	Application	Update Televis Go application.
	Functions	Update/load the software applications.
	Languages	Update/load the system glossaries.
	Parameters map	Load a parameters map.
	Layout pages	Load a layout.
	General settings	Load the file "Forced_setting.txt". This file is sent via an update (in the .zip file) or via Eliwell Technical Support.
31	Scheduled actions	Update/load the scheduled actions.
-))	Alarm categories	Update/load the alarm categories.
	Device/algorithms drivers	Update the drivers for the instruments/algorithms.
	Reboot	Reboot the Televis Go application.
	Backup	Back up the configuration for restoring at a later stage.
	Restore	Restore the configuration saved using the backup function.

Equipment

Contents

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Introduction

Description

This section can be used to:

- view and filter network devices
- filter by individual devices (name, model, etc.)
- configure individual devices
- add new devices
- add new interfaces

Viewing and filtering network equipment

Description

On accessing or entering the BEQUIPMENT menu, the following window will appear:

TelevisGo 🞵 Plantname: EW Software DUT					lata Acquisition: tunning	Alarms: Active	Administrator)	elir/ell
	HISTORY 🕅 🔭 TOOLS	စ္မိံ Settings ြူ						
Search in your equipment	3 In Mainter		Group 4 Group 5 (Group 6 7	1		Cards ▼	Add Device(s)
Image: Second	↔ Số 7 : 002 (0 Fish cabin	or 1	2.0 °C 100.0 °C 5.0 °C/°F Active Active Inactive		Meat cabinet 3 003 (00:03)@COM1 Meat cabinet probe Valve 1 opening percents PLA00200 Compressor 1 Compressor 2 Defrost 1	age 🗸 Show more	5,9 °C 100,0 °C 5,0 °C/°F Active Active Inactive	¥∘≋¤:
Mest cablest 2 Mest cablest 2 Mest cablest probe Value 1 specing parter Value 1 specing parter Compressor 1 Compressor 2 Defrest 1 Value 1	◆ 0 20 14 : • 005 (0 Fish cabin	bening percentage 0 or 1	*C % ~~ 	• \$\$ tr :	CentralizedDewPoint 016 (0100)@Algorithms No pinned resources four			
C 002 (2003)@Jagorithms No pinned resources found	Free spac Network Network Network	k14@unknown 2 on the disk 20M1 acquisition time 10.136.117.114 acquisition time 192.168.1.2:502 acquisition time n not running	55,18 135 s 16 s 15 s Inactive Inactive	A :				
						1 🔊 Mai	intenance	Remove

The window contains:

- 1. Select all devices shown. If a filter is applied, only those meeting the filter requirements will be selected
- 2. Filter devices by controller model (for example: RTX 600/V) or by description (for example: Fish cabinet).
- 3. Apply/remove the filter for devices in alarm mode only
- 4. Apply/remove the filter for devices in "Maintenance" mode only
- Apply/remove the filter for the groups associated with the devices (for example: meat, fish, etc.).
 NOTE 1: the groups can be set on the device configuration page.
 NOTE 2: a device can belong to several groups
- 6. Show/hide the following filters:
 - Communication status (device unknown, does not match, partially matches or No-Link)
 - Protocol type (Modbus, Micronet)
 - Fieldbus interface (address)
- 7. Drop-down menu to change the display type. Options:
 - (Cards): display the devices on cards showing the linked image
 - H (Grid): display the devices on cards without the linked image
 - (Compact): Simplified view of equipment data (statuses and 1 resource only)
- 8. Enable entry of a new device (Add Device)
 - NOTE: the button is only visible if the current user is authorized to configure the network of controllers.
- 9. View the resources in the foreground.
- 10. Tab with basic information for a specific device. Click to view the details of that specific device.
- 11. Only appears if one or more devices are selected (using the check box in the top left-hand corner of each tab) and:

- $^{\sim}$ (Maintenance): put the selected devices into "Maintenance" mode
- (Import): apply a specific device profile to the selected devices
- (Remove): remove the selected devices from the configuration

Basic device information tab

Description

1		456789 ₩0% ⊑ ☎ :
Meat cabinet probe	24,9 °C	
Valve 1 opening percentage	100,0 °C	
PLA00200 10	1 5,0 °C/°F	
Compressor 1	Active	
Defrost 1	Inactive	
Probe Al error 1	Confirmed	
High (Evaporator fan probe)	Inactive	
■ Show more		

The tab contains:

- 1. identifies status and selects device
 - \bigcirc = The device is connected
 - -⁽⁾ = The device has not yet been recognized
 - 💙 = The device is in No Link mode
 - -* = The device has not yet been included in the configuration

- A = The device partially corresponds to the set model **Note**: the parameters and commands functions are not enabled

- (!) = The device does not correspond to the set model **Note**: model change is required

- ⁽³⁾ = The device is in "Maintenance" mode

- Shown as the mouse passes over, used to select the device

- 2. Name assigned to the device
- 3. Controller address and fieldbus interface
- 4. Cooling function status (if managed by the controller):

- 🗱 = Cooling active

- 💥 = Cooling inactive
- 5. Defrost function status (if managed by the controller):
 - C = Defrost active

- C = Defrost inactive

6. Evaporator fan status (if managed by the controller):

-SS = Fans active

- SS = Fans inactive
- 7. Door status (if managed by the controller):
 - 💷 = Door open
 - - = Door closed
- 8. Alarm icon:

 $-\Omega = No$ alarm active

- 🖄 = At least one alarm active
- \mathcal{X} = All alarms have been viewed and acknowledged
- 9. The 3 dots on the right-hand side can be used to:
 - C (Edit): change the device settings
 - [%] (Maintenance): put the selected devices into "Maintenance" mode
 - 🖆 (Import profile): apply a specific device profile to the selected devices
 - ⁵ (Export profile): export a specific device profile
 - (Change model): change the "Model" and "Device profile"
 - (Remove): remove the selected devices from the configuration
- 10. View the resources in the foreground. **NOTE**: if one or more alarms are selected in the foreground, the last 2 rows will be reserved for alarm resources
- 11. Shows the values of the selected resources in real time
- 12. Image associated with the device
- 13. Appears when the resources in the foreground are more than those that can be displayed and can be used to scroll through them in the device tab.

Viewing equipment data

Description

On accessing or entering the BEQUIPMENT menu and selecting one of the devices, the following window will appear:

Televi	sGo fi ^{Plantname:} EW Software D	рит						Run	Acquisition:	Alarms: Active	Administrator)	eli.
Û				💥 tools	(3) SETTINGS		COMPUTER					
			Meat Cabinet	🖶 Manual an	at cabinet 1 4	mailto: 0'		*	 SS 12 ⋮ Maintenance End in: 9 min 54 se 9 	Actions •	RTX 600/V DOMINO Z 001 (00:01)@COM1 Mddel RTX 756	ERO 756/1025 (Modbus)
	2		Meat cabinet probe	25,0 °C	Valve 1 opening percentage	100,0 %	PLA00200	100,0 %	Compressor 1	On	Compressor 2	On
		14	Defrost 1	Off	Defrost 2	Off	Evaporator fans	On	Condenser fans	Off	Light	On
	08:5		Reduced set	Off	Energy saving	Off						
	NEWPENES	Œ	 Resources Filter by description 	△ Alarms	History	悼 Paramete	ers 📑 🛛 Þ Comm	ands 🖸				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			Description 🔿	· Value	0 i t	Jnit 🔾					Gro	ups 🗘
			Meat cabinet probe	25,0	•	c					mea	t, defrost
			Meat cabinet probe 2	**		c					mea	t
		16	Control probe 2	**		c						
		-	Temperature atami pro			C/°F					mea	t
			Temperature alarm prof	2 **		C/°F					mea	t, defrost
				20,0								
			Defrost probe 2	**		C/°F					mea	t

The window contains:

- 1. Navigation menu
- 2. List of network devices including display filters (see Viewing network devices)
- 3. Image associated with the device
- 4. Name assigned to the device
- 5. View link to any document associated with the controller. Only shown if included in the device settings
- 6. Shows whether a reference to a website, a telephone number or an email address has been entered. Only shown if included in the device settings

- URL (): used to enter the Url for a website or a local Televis**Go** address preceded by "/" (example: "/app/alarms")

- CALL (C): used to enter a telephone number. Requires an international prefix to be entered (for example: +39).

- MAIL (): used to enter an email address

- 7. Controller status icons (device status, alarm, cooling, defrost, evaporator fans)
- 8. Actions: drop-down menu with the following options (only shown if the current user is authorized to configure the network of controllers or maintenance):

- (Edit): change the device settings

- [%] (Maintenance): enter the "maintenance" mode duration time. Click "Change" to enable it.

Maintenance mode	
Duration *	
Enter the maintenance mode duration time	~
	Change Cancel

- 🔄 (Import) : apply a device profile to the selected devices
- 🔄 (Export profile): export a device profile
- (Change model): change the "model" and "device profile"
- (Remove): remove the selected devices from the configuration
- 9. (Maintenance): Status and duration of the controller in maintenance mode. Setting takes place within the "Actions" drop-down menu and you can exit Maintenance mode using the switch to the right of the "Maintenance" button.
- 10. List of basic device information:
 - Model of the controller paired with the device
 - Controller address and fieldbus interface to which it is connected
 - Type of protocol used by the controller
- 11. Image to scan to view the user manual for the controller
- 12. Information relating to the device:
 - Controller model
 - Controller serial number
- 13. List of groups associated with the device
- 14. View the resources in the foreground. These resources are shown in the Device tab on the Devices page.
- 15. It can be used to select the following data tabs:
 - ^(C) (**Resources**): list of resources
 - (Alarms): list of alarms
 - (History): historical data shown in the form of a table or chart
 - ^{|||} (**Parameters**): link to the list of parameters
 - $-^{\triangleright}$ (**Commands**): link to the list of commands
- 16. Show detailed data for the selected tab.

Network devices list

Description

On accessing or entering the 🛛 Equipment menu and selecting one of the devices, the following window will appear:

2	
Search in your equip	
Filter by category	• 7 6
Meat cabinet 1 001 (00:01)@COM1	* 0 88 🖄 :
	* 0 83 🛯 🖄 🗄
Meat cabinet 3 001 (00:03)@COM1	* 0 % 🖄 :
8 Meat cabinet 2 001 (00:04)@COM1	* * * *
(%) Fish cabinet 2 001 (00:05)@COM1	* * * * *
CentralizedDewPoint 016 (01:00)@Algorithms	22 :
	22 :
O TelevisGo 238 (14:14)@unknown	△ :
🔧 Maintenance 🖉 Imp	oort 🗑 Remove
0	க் Interfaces 1 :
Total: xx devices	12

The window contains:

- 1. Select all devices shown. If a filter is applied, only those meeting the filter requirements will be selected
- 2. Filter devices by controller model (for example: RTX 600/V) or by description (for example: Fish cabinet).
- Filter devices by category (for example: meat, fish, etc).
 NOTE 1: the categories can be set on the device configuration page.
 NOTE 2: a device can belong to several categories
- 4. Apply/remove the filter for devices in alarm mode only
- 5. Apply/remove the filter for devices in "Maintenance" mode only
- 6. Show/hide the following filters:
 - Communication status (device unknown, does not match, partially matches or No-Link)
 - Protocol type (Modbus, Micronet/Eliwell)
 - Fieldbus interface (address)
- 7. List of basic device information (device profile associated with the device, controller address and fieldbus interface to which it is connected, type of protocol used by the controller and status icons)
- 8. The 3 dots on the right-hand side can be used to:
 - (Edit): change the device settings
 - [%] (Maintenance): put the selected devices into "Maintenance" mode
 - 🔄 (Import profile): apply a specific device profile to the selected devices
 - 5 (Export profile): export a specific device profile
 - (Change model): change the "Model" and "Device profile"
 - (**Remove**): remove the selected devices from the configuration
- 9. Only appears if one or more devices are selected (using the check box to the left of each device) and shows:

- ^(Naintenance): put the selected devices into "Maintenance" mode. **NOTE**: the button is only enabled if the current user is authorized to manage maintenance

- 🗁 (Import): apply a specific device profile to the selected devices

- (Remove): remove the selected devices from the configuration
- Used to enter a new device (Add Device(s))
 NOTE: the button is only visible if the current user is authorized to configure the network of controllers.
- 11. Offers access to the page used to define the network fieldbus interfaces (Add/edit a fieldbus interface) **NOTE**: the button is only visible if the current user is authorized to configure the network of controllers.
- 12. Indicates the total number of network devices

Adding equipment

Description

On accessing or entering the BEQUIPMENT menu, if you select "Add equipment" in the top right-hand corner or select one of the pieces of equipment, then click "Add equipment" in the bottom left-hand corner, the following window will appear:

30	3
40	
50	500000000000000000000000000000000000000
60	6
70	700000000000000000000000000000000000000
130	13
140	14
	10 MICRONET/ELIWELL
200	
210	
220	
230	
	10

NOTE: the button is only visible if the current user is authorized to configure the network of controllers. The window that opens contains the following editable fields (those marked with a red asterisk are compulsory):

- 1. Select the controller model or select "Auto-Detection Modbus" or "Auto-Detection Eliwell" to automatically scan using Modbus protocol or Micronet/Eliwell protocol respectively.
- 2. Select the equipment profile to use, from:
 - system: automatically generated profile with minimal settings (provided by Eliwell)
 - Eliwell: pre-configured profile with the most common settings (provided by Eliwell)
 - Custom: custom profile (contact Eliwell Technical Support for system customization)
- 3. Select the fieldbus interface to which the controller is connected (for example: COM1). If the interface does not appear, you need to configure it first (see Configuring Fieldbus Interfaces).
- 4. Set the range of addresses to scan in order to detect the controller. Click 🕒 to add it.

The list of ranges set appears under **Address list**. Alongside every range is a *button that can be used to delete it.*

For Modbus equipment, the address is displayed as 1 (00:01), where the first number identifies the Modbus address and the corresponding Micronet address is in brackets.

- 5. Show/hide settings relating to the protocol for the selected interface.
- Additional settings relating to the protocol type. The interface type cannot be changed, in contrast to the serial transmission speed (Baud Rate) and the communication parameters (Format) represented by 3 characters, e.g. "8E1", with the following meaning:

8	Size = 8 bit	Options: 8 bit
Е	Parity bit = Even	Options: n = none; E = even; o = odd
1	Stop bit = 2 bit	Options: 0 = 1 bit; 1 = 2 bit

- **SAVE**: save the settings and check them. If the settings are correct, the equipment will be added to the network list (see Network devices list). 7.
- 8. RESET: reset the data entered on the screen
- 9. MODBUS: shown if the set interface is Modbus type and shows the addresses already occupied by other equipment (
- 10. MICRONET/ELIWELL: shown if the set interface is Micronet/Eliwell type and shows the addresses already occupied by other equipment (equation B = 0
 equation (1)
 equation

Alarm indications (Warnings)

After clicking SAVE, the system checks the data entered and shows a warning pop-up (warning image) in the following cases:

Where	Message	Reason/Solution
Addresses	The range contains addresses that are not valid for the protocol	At least one invalid address has been entered for the selected protocol. Entry is only completed for valid addresses
Addresses	The range contains the supervisor address	The supervisor address is included in the selected range. This address cannot be selected
Addresses	At least one existing equipment address has been entered	At least one existing equipment address has been entered. You will be asked to confirm overwrite or cancel entry

Automatic identification of the controller model

If "Auto-Detection Modbus" or "Auto-Detection Eliwell" was selected during configuration of the controller, the system will read the information field relating to the connected controllers.

"Auto-Detection Modbus" selection works for Eliwell equipment and for third-party Modbus equipment for which Eliwell provides the driver.

This process may take a few minutes.

The controllers identified successfully change from the initial description "Auto-Detection Modbus" or "Auto-Detection Eliwell" to the name of the identified model.

NOTE: make sure all equipment has been recognized correctly.

Equipment data settings

Once you have entered device viewing mode, use the "Configuration" drop-down menu to select C Edit and the following device setting window will appear:

Telev	isGo 🔏 Plantname: EW Software DL	л							ta Acquisition: nning	Alarma: Active	Administra	tor)
	() EQUIPMENT					is 🖵			_	~	0	-
		*	⊘ 🥌 Meat ca	binet 1 3				*	4 ⊳ % ☆ ∓	Actions *	6 RTX 600/V DOMINO 001 (00:01)@COM1	ZERO 756/1025 (Modbus)
			Description								Image	
			Meat cabinet 1								1	
			Model				Serial Number					
	2		Enter a product mo	del			Enter a serial nun	iber				
	NEWPORT	•	Link				File					
	NOTES		🔗 💌 Enter a url				Select file RTD	(600 Test.pdf		6		
	EN X		Link label				File Label					Remove image
	4.0% %		Enter a label for the	e link			Enter a label for	the file				
		1	Meat Cabinet 🔕 🛞	Add new category								
			Meat cabinet probe	25,0 °C X	Valve 1 opening percent	age 100,0 % ×	PLA00200	100,0 %	X Compressor 1	On	X Compressor 2	On X
		1	Defrost 1	× no	Defrost 2	Off ×	Evaporator fans	On	X Condenser fans	011	X Light	On X
			Reduced set	on x	Energy saving	× no						
		Ð	③ Resources	🛆 Alarms	History	纷 Paramete	rs 🖸 🕨 Com	mands 🖸				×
			Search by description									Show valu
			1 1		1	1	1		Archive	Threshold	E Chart	
		(B)	🗌 I 🗘 I Descri	iption 🗘	i Unit 🗘	I Groups O	+ HACCP ○		History 🗧 + Quick 🔿	Low/High	Color 🗘	En 🗘
		Ÿ	🗄 🗆 🖄 Redu	ced set-point	*C/*F			Ø		Not set / Not	t set Not se	• @ 🔹 🔍

The window contains:

- 1. Navigation menu
- 2. List of network devices with various display filters (see Network devices list)
- 3. Name assigned to the device
- 4. Controller status icons (device status, alarm, cooling, defrost, evaporator fans)
- 5. Actions: drop-down menu with the following options:
 - ^{(View}) : revert to "View device" mode
 - [%] (Maintenance): put the selected device into "Maintenance" mode
 - 🖆 (Import) : apply a device profile to the selected devices
 - 🔄 (Export profile): export a device profile
 - (Change model): change the "model" and "device profile"
 - (Remove): remove the selected devices from the configuration
- 6. List of basic device information:
 - Model of the controller paired with the device
 - Controller address and fieldbus interface to which it is connected
 - Type of protocol used by the controller
- 7. Image to scan to view the user manual for the controller
- 8. **IMAGE**: Image associated with the device. If you click on the image, you can upload images in ".jpg", ".jpeg", ".jfif", ".webp", ".png", ".apng", ".bmp", ".svg", ".svgz", ".xbm", ".ico", ".gif", ".tif", ".tif", ".pjp", ".pjpeg", ".avif" format with a maximum size of 5 MB.

Remove image: used to remove the uploaded image

- 9. Used to set the following information:
 - Description: assign the device name
 - Model: device model (optional)
 - Serial Number: device serial number (optional)
 - Link: used to enter a reference to a website, a telephone number or an email address
 - URL (🔗): used to enter the Url for a website or a local TelevisGo address preceded by "/" (example:

"/app/alarms")

- CALL (\swarrow): used to enter a telephone number complete with international dialing prefix
- MAIL (): used to enter an email address
- Link Label: assign a name to the entered link
- File: used to load a file to make available for download, for example the device manual or the controller parameters. Available file formats: "pdf", "txt", ".jpg", ".jpeg", ".jfif", ".webp", ".png", ".apng", ".bmp", ".svg", ".svgz", ".xbm", ".ico", ".gif", ".tiff", ".pjp", ".pjpeg", ".avif" with a maximum size of 25 MB.
 OPEN FOLDER (
): used to open explore resources and load a file
 - REMOVE (m): used to remove the loaded file
- File Label: assign a name to the loaded file
- 10. List of groups associated with the device. New categories can be entered by pressing "Add new group"
- 11. View the resources in the foreground. These resources are shown in the Device tab on the Devices page.
- 12. It can be used to select the following data tabs:
 - ⁽¹⁾ (**Resources**) = list of resources that can be selected
 - $-\Omega$ (Alarms) = list of alarms that can be selected
 - (History) = view the data archive for the instrument in the form of a table or chart
 - ^h (**Parameters**) = link to the list of parameters
 - $-^{\bigcirc}$ (**Commands**) = link to the list of commands
- 13. Shows the information relating to the selected tab.

Device resources

Once you have entered equipment viewing mode, use the "Configuration" drop-down menu to select LDIT.

Then select the TAB: ⁽¹⁾ Resources.

The following window will appear:

4	③ Resources	Resources 🛆 Alarms 🗟 History		as 😝 History 🙌 Parameters		▷ Commands	s					7 L
Sea	rch by description										7	7 Show values
	I I		I	1	1	I.	1	Archive		\mid Threshold $ ightarrow$	Chart	1
	🗌 I 🗘 I Descr	iption 🗘	🗆 Value 🗘	⊢ Unit 🗘	I Groups 🗘	⊢ HACCP ♦	Energy 🗘	⊢ History 🗘 I	Quick 🔾	🗉 Low / High 🗘	⊢ Color 🗘	En
	🗆 🖄 Reduc	ed set-point	-5.2	°C/°F			ą			Not set / Not set	Not set	e 🚺
		-	-									

The following fields appear at the top:

- 1. Filter the resources in the description column on the basis of a keyword
- 2. Show/hide the "Value" column for the resources
- 3. Enlarge the table to full-screen view
- 4. Can be used to drag the resource (or a group of resources selected using the check box) to a different position. Sort the list of resources in the foreground as shown in this TAB
- 5. Select/deselect a resource. Select multiple to apply the same settings
- 6. Add/remove a resource to or from the resources in the foreground
- 7. DESCRIPTION: view/edit the name of a resource
- 8. VALUE: (only shown if point 2 is selected) Show the resource value in real time
- 9. UM: view/edit the resource unit of measure
- 10. GROUPS: used for rapid selection of the resources to be shown in charts and historical tables
- HACCP: identify whether the resource is entered in the HACCP report.
 Note: several analogue resources can be selected, but only one digital resource (for example: defrost) for each device
- 12. **ENERGY**: identify whether the resource is entered in the "Energy report"
- 13. HISTORY: enable/disable saving in the data archive
- 14. **QUICK**: enable/disable data recording with frequent sampling and storage in the temporary database (recent data only)
- 15. LOW/HIGH: view/edit the alarm thresholds (see "Virtual alarms" section)
- 16. COLOR: assign a color to a resource for display on real-time and historical charts
- 17. **SWITCH**: enable (green)/disable (gray) reading and use of the resource. This setting takes priority over all the other resource settings.

Virtual alarms

When a value relating to each analogue resource is entered, the system will generate the corresponding "**virtual** alarms" inside the LOW/HIGH cell (point 15).

If, for example, you set:

Resource	Low	High
Analogue input 1	(A) 30	(B) 60
Analogue input 2	-	-
Dew point	-	(C) 45
Valve opening percentage	-	-
Door opening status	(D) 1	(E) 0

the following "virtual alarms" will be generated:

Resource	Alarm due to	Description
(A) Low alarm (Analogue input 1)	Low	Activated when the value of analogue input 1 is < 30
(B) High alarm (analogue input 1)	High	Activated when the value of analogue input 1 is > 60
(C) High alarm (Dew point)	High	Activated when the value of the Dew point is > 45
(D) Low alarm (Door opening status)	Low	Deactivated when the value becomes 0
(E) High alarm (Door opening status)	High	Activated when the value becomes 1

The new alarms will inherit all the properties of the instrument to which they refer (option of putting them offline, choice of infill/color inside graphs and any activation delays).

If the analogue resource to which the "virtual alarms" refer is no longer present, the alarms will be deleted.

Equipment alarms

Once you have entered equipment viewing mode, use the "Configuration" drop-down menu to select CEDIT.

Then select the TAB: \triangle ALARMS.

The following window will appear:

		③ Resources	🛆 Alarms	History	悼 Parameters	▷ Comr	nands				∠^ 3
9	Sea	arch by description								Ŷ	Show values 2
		1 1						1	I.	Chart	
		🗌 I 🗘 I Descrij	ption 🗘				🗆 Value 🗘	I Delay 🗘	· Groups 🗘	- Color 🗘	En 🗘
	:						-5.2	00:05:00		Not set 《	P 💽
	4	96 7					8	9	10	1	12

The following fields appear at the top:

- 1. Filter the resources in the description column on the basis of a keyword
- 2. Show/hide the "Value" column for the resources
- 3. Enlarge the table to full-screen view
- 4. Can be used to drag the resource (or a group of resources selected using the check box) to a different position. Sort the list of resources in the foreground as shown in this TAB
- 5. Select/deselect a resource. Select multiple to apply the same settings
- 6. Add/remove a resource to or from the resources in the foreground
- 7. DESCRIPTION: view/edit the name of a resource
- 8. VALUE: (only shown if point 2 is selected) Show the resource value in real time
- 9. DELAY: used to enter a delay before alarm activation
- 10. GROUPS: used for rapid selection of the resources to be shown in charts and historical tables
- 11. COLOR: assign a color to a resource for display on real-time and historical charts
- 12. **SWITCH**: enable (green)/disable (gray) reading and use of the resource. This setting takes priority over all the other resource settings.

History

Once you have entered device viewing mode, select

```
the TAB: 🔤 HISTORY.
```

The following window will appear:

Resources	△ Alarms	History	h 위 Parameters	▷ Commands	×^ 7
		Group *			
		1 Select a grou	ip		~
		View mode *			
		2 🖂 Chart	Table 3		
		Data sampling	•		
		4 Standard			
		Frequent			
			5 🛃	/iew chart 6	View table

NOTE: the TAB is only visible if the current user is authorized to view the data archive The following fields appear at the top:

- 1. Select the resource/alarm group to view
- 2. Select data viewing in the form of a Chart
- 3. Select data viewing in the form of a Table
- 4. Select whether to show the data in the "History" or "Quick" (frequent sampling) column
- 5. (Present if number 2 selected) View the data chart
- 6. (Present if number 3 selected) View the data table
- 7. Enlarge to full-screen view.

Parameters

Once you have entered device viewing mode, select the TAB: $\frac{1}{1+1}$ PARAMETERS.

The window containing the list of device parameters will appear.

Note: if the controller has not been recognized or is in No-Link, or the model is incorrect/does not correspond, the TAB is not enabled

You can also access this screen by selecting:

₿ FUNCTIONS > PARAMETERS

and selecting the specific device.

NOTE: access to data is only permitted if the current user is authorized to view the device parameters.

Commands

Once you have entered device viewing mode, select the TAB: \bigcirc COMMANDS.

The window containing the list of device commands will appear.

Note: if the controller has not been recognized or is in No-Link, or the model is incorrect/does not correspond, the TAB is not enabled

You can also access this screen by selecting:

FUNCTIONS > COMMANDS and selecting the specific device.

NOTE: access to data is only permitted if the current user is authorized to view the device commands.

Alarms

Contents

This section includes the following topics:

Introduction	71
Viewing and filtering network alarms	72
Basic device alarm information tab	74
Alarm details	76

Introduction

Description

This section can be used to:

- view and filter devices in alarm mode
- view for how long a device has been in alarm mode and whether one or more relative alarms have been acknowledged
- access the screen showing a specific device in alarm mode by directly displaying the alarm resources.

Alarms

In order to verify the network devices, you need to set and enable the virtual "No-Link" alarm that the system inserts between the resources of all devices and algorithms.

NOTICE

INOPERABLE DEVICE

Set and activate the "No-Link" alarm for various devices to receive notifications relating to a lack of communication or anomalous operation linked to incorrect recognition of the device resources.

Failure to follow these instructions can result in equipment damage.

Viewing and filtering network alarms

Description

On entering the \triangle ALARMS menu, the following window will appear:

TelevisGo 🞵 Plantname: EW Software DUT						Ē	Data Acquisition: Running	Alarms: Active	Anzo (Administrator)	elir/ell
	ALARMS 🗧	HISTORY	💥 tools	ැලූ SETTINGS						
Equipment text filter	٩,	Group 1 Group	a 2) (Group 3) (G	Group 5 Group 6	4		ž	Show confirmed	© Cards ▼	② Configure ▼
Meat cabinet 1 001 (00:01)@COM1		🛠 o % 🎦 :	⊘ (00:02)	cabinet 1 2)@COM1	\$	6 0 % 🗉 🎞 :	Meat cabin 003 (00.03)@C0			🛠 o % 🎌 :
11 Probe Al error 6 12 High alarm reg. 1 11 Valve I output max alarm	5 days [2] 5 days [2] 1 hours [2]	G	안 Probe 안 High a 안 Vatve		5 days [] ² 5 days [] ² 1 hours [] ²	G	Probe Al erro 12 High alarm r 12 Valve 1 outp	eg. 1	4 days []] 4 days []] 1 hours []	G
Meat cabinet 2 004 (00:04)@COM1		🚸 o % 압 🕯	8 (Fish o 005 (00:05	cabinet 2 500CDM1		🛠 o % 耀 :	CentralizedDe	wPoint		u:
À Probe Al error 6 11 High alarm reg 1 12 Valve 1 output max alarm	5 days [] 5 days [] 1 hours []	G	안 Probe 안 High a	Al error 6	3 days 📑 3 days 📑	G		alculation is not performed	3 days 📑	G
PlastingSuction 002 00002@Algorithms ☆ Suction unit of measure mismatch ☆ Safety differential pressure/temperature so	3 days [] uction 3 days []	T) T)	238 (14:14	a g@unknown running out of space	5 days 📑	τr: T				
							2			
		Alarms acki Note	larms acknowledge $\sim e^{\lambda}$							
		1		te			,,			
					Confi	rm Cancel]			

The window contains:

- 1. Select all devices shown. If a filter is enabled, only those meeting the filter requirements will be selected.
- 2. Filter devices by controller model (for example: RTX 600/V) or by description (for example: Fish cabinet)
- Apply/remove the filter for the groups associated with the devices (for example: meat, fish, etc.).
 NOTE 1: the groups can be set on the device configuration page.
 NOTE 2: a device can belong to several groups
- Show/hide the following filters:
 - Communication status (device unknown, does not match, partially matches or No-Link)
 - Protocol type (Modbus, Micronet)
 - Fieldbus interface (address for example 192.168.1.3)
- 5. Show/hide confirmed alarms and update the device list according to alarms present and/or confirmed alarms
- 6. Drop-down menu to change the display type. Options:
 - 🖾 (Cards): display the devices on cards showing the linked image
 - H (Grid): display the devices on cards without the linked image
- 7. Drop-down "Configuration" menu for quick access to alarm configuration, with the following options:

- ^[C] (Categories): set the alarm categories (see Alarm categories)

- (Actions): set the actions to be taken in the event of an alarm (see Actions)
- $-\bigcirc$ (**Intervals**): set the time intervals (see Time intervals)

Note: the menu can only be seen by users authorized for "Alarm Configuration"

- 8. View devices in alarm mode or guickly access alarm configuration, with confirmed network alarms based on the selection made in point (5).
- Tab with basic alarm information for a specific device. Click to access a detailed view of the device with the 9. Alarms tab pre-selected.
- 10. Alarm management panel shown if:
 - alarms for all devices are selected (1)
 - all alarms for one device have been selected using the check box in the top left-hand corner of the device tab - one or more alarms have been selected for a device using the check box to the left of each row The following can be found in the panel:

 - Note: to enter a note to be linked to all selected alarms when they are confirmed.
 - Confirm: to change the status of the "confirmed" alarms and save the note.

NOTE: confirming one or more alarms only changes the displayed information on the alarms page. Its history is tracked but it does not affect the actions.

Example: it does not change the behavior of an alarm relay. You will need to wait for the alarm condition to actually end for the relay output to be disabled.

- Cancel: cancels the operation. The alarm status is not changed and the note is not entered.

Basic device alarm information tab

Description

1		456789 業 ○ ೫ ⊑ ☎ :
 Probe Al error 6 High alarm reg. 1 Valve 1 output max alarm 1 	5 days 5 days 1 hours 1 1 1 1 1 1 1 1 1 1 1	

The tab contains:

- 1. identifies status and selects device
 - \bigcirc = The device is connected
 - ⁽⁾ = The device has not yet been recognized
 - 😕 = The device is in No Link mode
 - -* = The device has not yet been included in the configuration

- A = The device partially corresponds to the set model **Note**: the parameters and commands functions are not enabled

- (!) = The device does not correspond to the set model **Note**: model change is required

- ⁽³⁾ = The device is in "Maintenance" mode

- Shown as the mouse passes over, used to select the device

- 2. Name assigned to the device
- 3. Controller address and fieldbus interface
- 4. Cooling function status (if managed by the controller):

- 🗱 = Cooling active

- 💥 = Cooling inactive
- 5. Defrost function status (if managed by the controller):
 - C = Defrost active

- C = Defrost inactive

- 6. Evaporator fan status (if managed by the controller):
 - -SS = Fans active
 - SS = Fans inactive
- 7. Door status (if managed by the controller):
 - 💷 = Door open
 - - Door closed
- 8. Alarm icon:

 $- \int \Delta = No$ alarm active

- 🕮 = At least one alarm active
- \mathcal{X} = All alarms have been acknowledged
- 9. The 3 dots on the right-hand side can be used to:
 - (Edit): change the device settings
 - [%] (Maintenance): put the selected devices into "Maintenance" mode
 - 🖆 (Import profile): apply a specific device profile to the selected devices
 - 5 (Export profile): export a specific device profile
 - (Change model): change the "Model" and "Device profile"
 - (Remove): remove the selected devices from the configuration
- 10. Shows whether the alarm is active or acknowledged:

- 🗇 = Alarm active

- λ = Alarm acknowledged

Note: if the alarm is active, it can be used to select a specific alarm using a check box that appears when the mouse moves over it, or after clicking.

Note: selecting the specific alarm for acknowledgment is subject to user authorization "Alarms acknowledge" (see Group management).

- 11. Alarm description
- 12. Indicates for how long the alarm has been active
- 13. View alarm details (see Alarm details)
- 14. Image associated with the device.

Alarm details

Description

Alarm: Probe Al e	3-6 rror 6						
Date and time			Internal state	External state			
29/05/2023 12:3			Active	Acquisition running			_
29/05/2023 12:3	9:49		Sleeping	Acquisition running			
ctive							
		Settings		Routing state		tries	
29/05/2023 12:	37:32 Univ	ersal Modo_Eco	Banco Pesce: Auxiliary output	: On and Auxiliary output On	Done	2	
29/05/2023 12:	29/05/2023 12:37:32 Universal Mail email address: change@		email address: change@email.add	ress	Failed	99	
29/05/2023 12	29/05/2023 12:37:32 Universal Phone Call Ph		Phone: +390000000	Failed	100	0	
29/05/2023 12	5/2023 12:37:32 Universal SMS SMS: +390000000			Failed	101	1	
Date and time	Action	Settings		Routing state		Retries	tries
29/05/2023 12:39:49	Universal Modo_Eco	Banco Pes Auxiliary outp	sce: Auxiliary output On and out On	Not performed: there are alarms managed by this a		0	
29/05/2023 12:39:50	Universal Phone Call	Phone: +39000	00000	Rerun		132	
29/05/2023 12:39:50 29/05/2023	Universal SM	5 SMS: +390000	0000	Rerun		132	
	Universal Mai	email address:	change@email.address	Rerun		141	1
12:40:03							
12:40:03							
12:40:03							

The tab contains:

- 1. Save: save changes to notes entered in point 7
- 2. Print: print alarm details
- 3. Alarm details: basic information relating to the alarm
 - Device: name of the device in alarm
 - Code: code for the active alarm
 - Alarm: description of the active alarm
- 4. Alarm trace: alarm history
 - Date and time: date and time at which the alarm occurred
 - Internal state = alarm condition (active/inactive)
 - External state = system status (acquisitions running, etc.)
- 5. Active: identifies the operations carried out on alarm activation
 - Date and time: date and time at which the alarm occurred
 - Action = action performed by the TelevisGo (if programmed)
 - Settings = parameters relating to the action
 - Routing state = result of the action (Done, Rerun, Failed, etc.)
 - Retries = number of attempts carried out
- 6. Inactive: identifies the operations carried out on alarm deactivation
 - Date and time: date and time at which the alarm occurred
 - Action = action performed by the TelevisGo (if programmed)
 - Settings = parameters relating to the action
 - Routing state = result of the action (Done, Rerun, Failed, etc.)
 - Retries = number of attempts carried out
- 7. Field used to edit or enter the note to be associated with the alarm.

History

Contents

This section includes the following topics:

Introduction	78
Alarm log	79
Data tables and charts	.81

Introduction

Description

This section can be used to:

- view alarm history
- view the data archive in table form
- view the data archive in chart form
- view the energy reports in table form
- view the energy reports in chart form

Menu structure

HYST	ORY	
		Alarm history
		Historical table
		Historical chart
		Energy report
		Energy chart

Alarm log

In the following menu:

History > Alarm history

The screen selects the type of interval to use:

- Quick: pre-set intervals (1, 2, 3, 6, 12 hours, 1 or 2 days, 1 week)
- Custom: custom interval with start and end date/time

Quick selection

Time intervals	
 Quick 	1
Last hour	2
O Custom	
Include alarms with delay	3

Make a selection as follows:

- 1. If not already selected, select the option "Quick" (set by default)
- 2. From the drop-down menu, select the desired time interval:
 - Last hour
 - Last 2 hours
 - · Last 3 hours
 - Last 6 hours
 - · Last 12 hours
 - Last day
 - · Last 2 days
 - Last week
- 3. Choose whether or not to select alarms with a delay in signaling (they may not be active yet).

Custom selection

Time intervals	
O Quick	
 Custom 	1
From	
02-04-2023 @ 14:49	2
То	
03-04-2023 @ 14:49	3
☐ Include alarms with delay	4

Make a selection as follows:

- 1. If not already selected, select the option "Custom"
- 2. In the box "From", enter the start date/time of the desired time interval
- 3. In the box "To", enter the end date/time of the desired time interval
- 4. Choose whether or not to select the box to include alarms with a delay in signaling (they may not be active yet).

Viewing alarm history

Once you have selected the desired time interval, click whether to access the screen with the alarm history:

			-					
ïme interval	_ Ÿ	Device	Code	Alarm	Begin	Delay	End	Duration
Type: Last hour From: 03/04/2023 15:44:18	(•)) 999.14:14 TelevisGo	ALM99998	Modem signal strength low	18/06/10 16.27.41			
to: 03/04/2023 16:44:18	(•)) 0.02:01 ID 974LX	ALM00300	NOLINK	09/07/10 9.46.43			
levices	(•)) 0.02:00 ID 974LX	ALM00300	NOLINK	09/07/10 9.46.49			
	(*)) 999.14:14 TelevisGo	ALM99999	Acquisitions stopped	20/07/10 16.11.18		21/07/10 16.11.20	1 day
esources	- II							

The screen components are as follows:

- 1. Time interval: indicates the time interval set on the previous page
- 2. Devices: used to filter the alarms by device name
- 3. Resources: used to filter the alarms by resource type
- 4. **Details**: shows the details relating to the alarms:
 - Alarm note: present if colored yellow (
 - Alarm icon:
 - RED (((•)) = if there is at least one active alarm
 - **GREEN** (((•)) = if an alarm has ended
 - Device: device name
 - Code: alarm code
 - Alarm: alarm description
 - Begin: alarm start date/time
 - Delay: indicates for how long the alarm has been delayed (and therefore not signaled)
 - End: date/time alarm ended
 - Duration: indicates the total duration of the alarm.
- 5. Control bar: see Buttons and Selectors.

The "Alarm note" can be also entered/edited within that alarm (click on the alarm icon).

Data tables and charts

Page structure

Web application pages for viewing historical data and energy information:

			💥 tools	ඟී SETTINGS		Q
Alarm History	Historica	al Table H	listorical Chart	Energy re	port Energy ch	art
Data archive Deta archive Deta archive Second Programmer Pro				4		-
Time intervals	×					
A hour A hour					0	
Expert						

The different parts of the page are:

- 1. Selection toolbar: used to activate or deactivate viewing of the following information:
 - P : performs a search for data based on the settings in the selection windows described in point 2
 - 📕 : shows/hides the "Data archive" window
 - : shows/hides the "Profile" window
 - 12 : shows/hides the "Time intervals" window
 - shows/hides the "Resources" window
 - shows/hides the "Legend" window (only available with charts)
 - ishows/hides the "Print/Export" window.
- 2. Selection windows: used to customize the search by setting the type of data, profile, time intervals, resources, etc. (see "System general settings").
- 3. **Data display**: data is displayed in the form of a table or a chart, depending on the settings selected previously. This takes place when the icon is clicked.
- 4. Selection: 4 types of information appear on this screen:
 - Historical table
 - Historical chart
 - Energy report
 - Energy chart.

History

Selection windows

The windows shown/hidden by pressing the icons in the selection bar are used as follows:

lcon	Window	Description of actions
	Ι	Filters settings according to the selection windows.
	 Data archive HISTORY No undersampling (all data). HISTORY Undersampling. Number of records to show: 1 QUICK Temporary database. ENERGY Energy data over time. Time base multiplier: 1 	 Used to select the data to show: HISTORY (no undersampling): Shows all logged data HISTORY (undersampling): Used to select the number of records to show QUICK (frequent sampling): Shows data from the temporary archive (only recent data) ENERGY (energy data over time): Used to select the time multiplication factor for calculation of the relative value for the energy resources (see Energy resource selection).
	Profile HACCP Load profile and retrieve data Delete selected profile Save current selection as	 Used to: Select a saved profile Create a new profile Save a profile that has just been created or edited Delete a profile saved previously NOTE: after selecting a profile, click the button to apply it and view the data.
12	Time intervals Last hour Image: Note that the second sec	Used to select the display interval from a list of pre-set values (1 hour, 2 hours, 3 hours, 6 hours, 12 hours, 1 day, 2 days, 1 week) or by defining a "custom" value (by specifying the interval start and end date/time in "dd-MM-yyyy@ hh:mm" format). The software will then display the values present in the interval corresponding to your selection, beginning with the current time at which the archive is being searched (for example, if you set 2 hours, the values recorded in the last 2 hours will be shown).
	Resources I Network configurations Select resources	If you decide not to select a profile that has been created already, you can use this box to set which instruments and network resources to view.

Legend	
 0.00:01 Corrente-Fase2 0.00:01 Energia-Reattiva 0.06:04 HT line suction pressure probe 0.06:04 LT line suction pressure probe 0.01:06 stand-by mode 0.01:06 No link 	Pairs each line (using color and shape) to a parameter selected during selection of the system settings. NOTE: only visible if a chart is shown.
 Print/Export X Show statistics Show legend Show header Landscape print Portrait print Print Export 	Used to print or export the data shown. Other options only visible if a chart is shown: Selects whether the following should be shown during the printing or exporting process: • statistics • legend • header. It also selects whether the output should be oriented horizontally or vertically.

HACCP profiles

During the profile definition phase there is the option of creating one or more profiles, categorized as **HACCP** profiles, that influence the way in which data is displayed and formatted during the printing phase.

In order to create an HACCP profile one of the following conditions must be satisfied:

- A. For each device you wish to enter in the profile, select only one analogue resource (typically the control probe) and only one machine status associated with the selected analogue probe (typically defrost status)
- B. For each device to be entered in the profile, select only analogue resources.

To the right of the temperature value an * (asterisk) is added if the machine status (typically defrost) is active.

In the case of Flash printing (periodical printing of real-time data) or real-time display, the system behaves as follows:

- In the event of an analogue resource error or "no-link" device, the system will search the historical data for the first previous valid temperature value
- The duration of the search window is defined in the configuration (default = 30 minutes).

Only profiles that satisfy the conditions described in points **A** and **B** can be marked as **HACCP** profiles. The user decides whether to mark a profile as **HACCP** by selecting the corresponding box, but the software offers this option only if the conditions are observed.

The Televis**Go** makes a System-HACCP profile available, which corresponds to the HACCP selections in the configured devices, together with any **HACCP** profiles created by the user, and can be viewed on the data archive screen.

Historical table

To view the data saved on the TelevisGo, go to the following menu:

History > Historical Table

The screen that opens is described in "Page structure" with the relevant options available for selection.

Once you have made the selections, click is to load a selected profile or the icon; the following screen will appear:

		Fruit island 1															
	'ime of /11/2023	Analog input 1 (°C)	Modified parameters	Device state	Keyboard enabling	Compressor	Defrosting status	Fans	Auxiliary	Light	Alarm	Buzzer	Reduced set-point	Forced ventilation	Out1	Out2	Out3
Ψ.	14.35.00	23.5	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
÷	14.40.00	23.6	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.45.00	23.7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	14.50.00	23.8	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
8	14.55.00	23.7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.55.30	23.6	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.56.00	23.5	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.59.15	23.4	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.00.00	23.4	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.05.00	23.6	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.10.00	23.8	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
÷	15.15.00	23.8	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	15.20.00	24	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	15.25.00	24	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.20.00	24.2	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.25.00	24.2	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
+	15.30.00	24.1	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
÷	15.35.00	24.2	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
÷	15.40.00	24.3	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	15.45.00		1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
Ν	lext 1	0 1	lext 50) N	ext 100	Nex	ct 200	All	rema	inir	ng 🖪						

The different parts of the screen are:

- 1. + / : used to expand/collapse the variations of asynchronous resources (digital inputs and outputs, statuses, alarms).
- 2. **Date/Time**: identifies the date/time the data was saved. There is then a series of columns with the previously selected resources and relative values read for each device at the indicated time.
- 3. **New records**: the initial screen will show the first 50 results by default. To view other values, select one of the following options:
 - Next 10: shows the next 10 values
 - Next 50: shows the next 50 values
 - Next 100: shows the next 100 values
 - Next 200: shows the next 200 values
 - All remaining: show all values

(NOTE: in some cases this may take a few minutes).

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Historical data chart

To view the historical data chart, go through the following menus:

History > Historical chart

The screen that opens is described in "Page structure" with the relevant options available for selection.

Once you have made the selections, click is to load a selected profile or the profile or the con; the following screen will appear:



The different parts of the page are:

- 1. Legend: shows the color chosen when creating the device profile for each resource (see "Device resources") and a symbol to identify the resource type (● = analogue resource and ▼ = digital resource).
- Resource chart: the curve on the screen shows how the values read (y-axis) varied over time (x-axis). Each selected resource has its own line in the assigned color with the value trend over time (for example: Controller 1 ColdRoom Analogue input 1).
- 3. Value axes: shows the y-axis for the different curves displayed. If the y-axes of several resources are compatible, it will show a single axis, otherwise it will show several y-axes on the right.
- 4. Statistics: shows the statistics for the analogue and digital resources displayed.

Click on the symbol of a resource to hide/show it.

If the hidden resource is an "analogue resource", the corresponding line on the chart will be also hidden and the axes of the read values (one for each unit of measure up to a maximum of 3) will be sized according to the remaining values. If a digital resource (digital inputs/outputs, machine statuses and alarms) is hidden, the chart will disappear and its

place will be taken by the next resource. Click on the first row of the resource name and a window opens which can be used as follows:

- Change color: used to change the color used in the chart

 - Mark: (digital resources only) used to view a vertical band in line with value 1 for the digital resource.

ANALOGUE RESOURCE	DIGITAL RESOURCE		
Controller 1 ColdRoom Analogue input 1	Controller 1 ColdRoom Digital input 1		
Change color	Change color		
	Mark		

Read value axis (y ordinates)

Click on the value axis to open a new window with the following items:

- Set as default: visible only with 2 or 3 axes and used to view the values in the unit of measure of the selected axis on the chart
- Change color: used to customize the color of the axis and the corresponding grid
- · Change minimum/maximum: used to customize the min and max values shown on the value axis
- Set bands: according to set values A and B (set to the closest value in the grid).

If more than 15 resources have been selected, the message at the top will appear: "You selected more than 15 resources. Chart performance may be critically low."

The chart shown is interactive: by moving the mouse over the rows of the various resources, the mouse cursor will take the shape • (in the same color as the resource) and:

- Within the chart: the values and the moment at which they were recorded will be displayed
- In the legend: the values of all resources in their unit of measure will be displayed

Zoom: selection boxes used to select a specific time band to view are in the bottom right-hand corner:

- 1 hour: the charts for the last hour of the selected time interval are shown (see previous page)
- **3 hours**: the charts for the last 3 hours of the selected interval are shown (see previous page)
- Max: the charts for the whole selected interval are shown (see previous page).

The interval can be edited by dragging the cursors \mathbb{U} downwards.

NOTE: check that the orientation set on the printer used is the same as the type of printing selected.

Energy report

To view the history for energy resources, go through the following menus:

History > Energy report

The screen that opens is described in "Page structure" with the relevant options available for selection.

Once selection is complete, click to load a selected profile or the icon to open the same screens as described for the data archive (see "Historical table").

The difference between one row and the next indicates the change in the resource monitored during the time period. Data is grouped by registration interval set for the energy resource (see Selecting energy resources).

A value greater than or equal to 1 can be entered in the text box as a multiple of the calculation time for the value relating to the energy resources.

The page will automatically calculate the value of the resulting period. To confirm the selected aggregation period click on **Set value**.

Energy chart

To view the energy chart, go through the following menus:

History > Energy chart

The screen that opens is described in "Page structure" with the relevant options available for selection.

Once selection is complete, click to load a selected profile or the icon to open the same screens as described for the historical chart (see "Historical chart").

Functions

Contents

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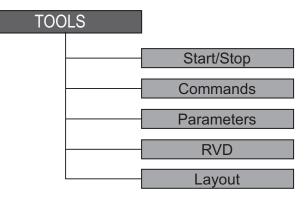
Introduction

Description

This section can be used to manage:

- Start/Stop acquisition
- Commands
- device parameters
- the RVD function (if available for the device)
- layouts

Menu structure



Start/Stop acquisition

In the following menu:

℅ Functions > Start/stop

On entering the menu, one of the windows shown below will open:

Acquisitions not running: the window below will appear. Click on Start to manually start them.
 NOTE: If the acquisition are not manually restarted, the acquisitions will be automatically restarted after a predefined time.

NOTE: Logging will be stopped automatically in the event of repeated service restarts in a short space of time.



• Acquisitions running: the window below will be displayed. It is not possible to stop acquisitions manually.



You can check the acquisition status in the Status bar (see "Status icons").

Scheduled actions start/stop

In the following menu:

✗ Functions > Start/stop

Depending on whether the actions have commenced, when you enter this menu one of the windows shown below will open:

• Scheduled actions not running: the window below will appear. Click Start to start the scheduled actions running.

31 Scheduler
Start Scheduled actions status: Not running

• Scheduled actions running: the window below will appear. Click Stop to stop the scheduled actions.

31 Scheduler
Stop Scheduled actions status: Running

Commands

In the following menu:

Functions > Commands

The following screen will appear:

0	Select al	Deselect all	Expand Collaps	e 🍾 Cancel filters 📥 Execute	Apply command f	ilter 🎄 Remove command filte	
Filter devices		Interface	ID	Address	Protocol	Fieldbus	
Description		Serial Adapter	0	COM1	Mixed native	BusAdapter	
		Address	Model	Description		Outcome	
Commanda		💷 🗖 02:00	RTX 600/V DOMINO ZERO	1.00:01 RTX 600/V DOMIN	IO ZERO (system)		
Select a command		📼 🗖 02:01 🗖	RTX 600/V DOMINO ZERO	RTX 600/V DOMINO ZER)		_
Show helpers	R	Algorithms	998	127.0.0.1	ModBus	Algorithms	
Show table header		Address	Model	Description		Outcome	
VZ		04:00	AlarmRepeater	998.01:00 AlarmRepeater			
elect a command	-	🔳 05:00	TestMAXBug	998.02:00 TestMAXBug			-
select a command		05:01	TestMAXBug	998.02:01 TestMAXBug			-
NC00001 Instrument on NC00002 instrument off							-
NC00118 Energy saving function activation	1	TelevisGo	999			BusAdepter	•
		Address	Model	Description		Outcome	
FNC00001 Instrument on FNC00002 instrument off		14:14		999.14:14 TelevisGo			

The different parts of the page are:

- 1. Filter devices: used to filter the devices by description
- 2. **Commands**: used to select the command/action to send to one or more devices. The list represents the grouping of all commands available on all devices in the network, plus any actions for writing "Manual Execution" parameters defined within the "Scheduled activities"
- 3. Show table header: show/hide table headers
- 4. Device list: used to select the individual devices by ticking the check box to the left of the address
- 5. Expand/Collapse: expands/collapses the list of devices in an interface
- 6. Control bar: see Buttons and Selectors.

Once execution is complete, the following screen will appear:

	Selecta	Deselect all	Expand Collaps	e 🍾 Cancel f	filters 📥 Execute 📥 Apply.command.filter 🛃	Remove command filter
er devices			Errors have occurred. Click o	on the followin	g link for more details. 7	
		Interface	ID	Address	Protocol Fieldbus	
manda	-	Serial Adapter	0	COM1	Mixed native BusAdept	. 8 .
p Writing •		Address	Model		Description	Outcome
helpers		02:00	RTX 600/V DOMINO ZERO		1.00:01 RTX 600/V DOMINO ZERO (system)	Error
helpers		🛤 🗖 02:01	RTX 600/V DOMINO ZERO		RTX 600/V DOMINO ZERO	Error
ow table header					Errors	1
	2	Algorithms	998	127.0.0.1	Label: rE Value: 6 Outcome: value off limit Label: rP1 Value: Pb6 Outcome: error Label: dF3 Value: 4.0 Outcome: not defined	
		Address	Model		Label: dF4 Value: 3.0 Outcome: not defined	come
		■ 04:00	AlarmRepeater		Label: dF5 Value: 3.3 Outcome: not defined	
		📼 🔲 05:00	TestMAXBug		Access the details page to view 2 other error/s	0
		D5:01	TestMAXBug		998.02-01 TestMAXBug	
	2	TelevisGo	999		BusAdao	ter
		Address	Model		Description	Outcome
		E 1414			999.14:14 TelevisGo	

The following information will appear:

- 7. A sentence warning the user of any errors. On clicking the highlighted text, a pop-up opens with the full list of errors detected.
- 8. The Outcome column where, for the selected devices, the following may appear:
 - Done: the action was carried out successfully
 - Error: if an error has occurred.
- 9. If there are errors: click the label "Error" for a specific device to open a pop-up with a list of errors detected.

To view the full list of errors, click on the sentence (7) or on the sentence in red in the new yellow window (9); the following page will appear:

ddre	ess: 0.02:00 - Descriptio	on: l	RTX	600)/V - Nan	ne: 🕕		
Label	Description	υм	Min	Max	Set	Device	Value	Outcome
rE	Type of setting	num	0	4	0	0	6	value off limit
rP1	Thermostat 1 temperature regulation probe		0	7	6		Pb6	error
dF3							4.0	not defined
dF4							4.0	not defined
dF5							4.0	not defined
dF6							4.0	not defined
-							4.0	not defined
dF7 Addre Label	ess: 0.02:01 - Descriptio	on: l	RTX)/V - Nan		4.0 Value	not defined Outcome
Addre Label	ess: 0.02:01 - Descriptio	on: l	RTX	600)/V - Nan	ne:		
Addre Label	ess: 0.02:01 - Descriptio	on: I им	RTX Min	(600 Max)/V - Nan _{Set}	ne: Device	Value	Outcome
Addre Label rE rP1	ess: 0.02:01 - Description Description Type of setting	on: I им	RTX Min	600 Max)/V - Nan Set	ne: Device	Value 6	Outcome value off limit
Addre Label rE rP1 dF3	ess: 0.02:01 - Description Description Type of setting Thermostat 1 temperature regulation probe	on: I им	RTX Min 0	600 Max 4 7)/V - Nan Set 0 6	Device	Value 6 Pb6	Outcome value off limit error
Addre Label rE rP1 dF3 dF4	ess: 0.02:01 - Descriptio	On: I UM num	Min 0 0	Max 4 7	D/V - Nan Set 0 6	Device 0	Value 6 Pb6 4.0	Outcome value off limit error not defined
Addre	ess: 0.02:01 - Descriptio	on: UM num 	Min 0 0 	Max 4 7 	D/V - Nan Set 0 6 	Device 0 	Value 6 Pb6 4.0	Outcome value off limit error not defined not defined

The screen displays:

10. The data for the device on which the errors have been detected.

- address
- · description
- name assigned to the device.
- 11. The list of errors detected. It contains the following information relating to each error:
 - parameter label
 - description
 - unit of measure
 - default value
 - value set on the device
 - · value the action attempted to write
 - type of error detected
- 12. The Print button used to print the full error report.

NOTE: incorrect selection of one or more commands (for example, "Device OFF") can influence the proper running of the equipment. In the example, sending the command "Device OFF" physically switches off the device and prevents it from acquiring any data or performing any regulation. Always provide control systems outside of the Televis**Go** for functions that are critical to the application.

LOSS OF CONTROL

The installation designer must consider the potential failure modes of the control circuit and, for some critical control functions, provide a means for reaching a safe condition during and after a circuit failure. Examples of critical control functions are the emergency stop and end of travel stop, power supply cut-off and restarting.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Parameters

In the following menu:



The following screen will appear:

			•	5 🖫 Expand	Collapse	Cancel filters		
Filter devices	-	Interface	ID	Address		Protocol	Fieldbus	
Description		Serial Adapter	0	COM1		Mixed native	BusAclapter / Wired RS-485	(
	2	Address	Name (short)		Description			
	9	<u> </u>	RTX 60DV DOMINO ZERO		0.02:00 RTX 600/V DOMINO	ZERO		
			ftmTelevistn		0.02:01 Televisin			
	-	Algorithma	998	127.0.0.1		ModBus	Algorithms	•
		Address	Name (short)		Description			
		04:00	FloatingSuction		998.01:00 FloatingSuction			
		C5:00	TestMAXBug		998.02:00 TestMAXBug			
		E 05:01	TestMAXBug		998.02:01 TestMAXBug			
	-	TelevisGo	999				BusAdapter	•
		Address	Name (short)		Description			
		14:14	TelevisGo		999.14:14 TelevisGo			

The different parts of the page are:

- 1. Filter devices: used to filter by device description.
- 2. **Device list**: shows the list of network devices grouped by interface. The controls present are those for each individual device
- 3. Parameters: click the device row to access the selected device parameters
- 4. Expand/Collapse: expands/collapses the list of devices in an interface.
- 5. Control bar: see Buttons and Selectors.

Only one device can be selected at a time.

Setting the value of some of the parameters incorrectly can affect the proper operation of the equipment, even if the values fall within the range of values that can be set (for example: setpoints, temperatures, etc.).

NOTICE

INOPERABLE DEVICE

Enable the TelevisGo alarm thresholds for resources that are critical to the application.

Failure to follow these instructions can result in equipment damage.

List of controller parameters

The following screen will appear:

Device			Label	Description	Value		UM	Min	Max
1.00:03 RTX 600 DOMINO ZERO	v		rE	Type of regulation	5		UM	0	6
Commands		-	rP1	Themostat regulation probe 1	4 - Ph4			0 - Disable	8 - filtered virtual prot
Select a command	v	-	rP2	Themostat regulation probe 1	4 - Pb4	00 V		0 - Disable	9 - Keyboard probe
Execute					4 - Pb4				
arameter map		ш	SP1	Regulation setpoint 1			°C	LS1 (0.0)	HS1 (20.0)
Save parameter map			LS1	Minimum value settable for setpoint 1	0.0		°C	LdL (-40.0)	HS1 (20.0)
Select file No file selected			HS1	Maximum value settable for setpoint 1	20.0	60	°C	LS1 (0.0)	HdL (100.0)
Load parameter map			dF1	Differential of set point 1	0.0		°C	-58.0	302.0
arameter filters	<u>×</u>		SP2	Regulation setpoint 2	40.0	60	°C	LS2 (20.0)	HS2 (50.0)
oup I	-		LS2	Minimum value settable for setpoint 2	20.0		°C	LdL (-40.0)	HS2 (50.0)
bel or MU	- 1		HS2	Maximum value settable for setpoint 2	50.0		°C	LS2 (20.0)	HdL (100.0)
			dF2	Differential of setpoint 2	10.0		°C	-58.0	302.0
iscription			Stt	Differential control mode	1 - relative	90 v		0 - Absolute	1 - relative
			HdL	Maximum value that can be displayed	100.0		°C	LdL (-40.0)	302.0
Checked rows Unchecked rows			LdL	Minimum value that can be displayed	-40.0		°C	-58.0	HdL (100.0)
Valid data Invalid or missing values			HC1	Operating mode of setpoint 1 (Heating/Cooling)	0 - Cooling	60 Y		0 - Cooling	1 - Heating
			HC2	Operating mode of setpoint 2 (Heating/Cooling)	0 - Cooling	60 Y		0 - Cooling	1 - Heating
gend Rearlinche	_		Cit	Minimum enabling time for compressor output	0		min	0	250
Read only	1		CAt	Maximum enabling time for compressor output	0		min	0	250
			Ont	ON time for compressor output with faulty regulation probe	3		min	0	250
			OFt	OFF time for compressor output with faulty regulation probe	3		min	0	250
			dOn	Compressor output enabling delay from request	0			0	250

The different parts of the page are:

- 1. **Controller**: shows the information relating to the selected device: selected device Address, Description and Name
- 2. **Commands**: used to select the command to be sent to the device (only commands available on the selected controller are listed).

Click "Execute" to execute the selected command.

- 3. Parameter map: used to load/save a parameter map:
 - Save parameter map: saves the parameter map for the controller in ".dat" format
 - Select file: select the parameter map to load onto the controller in ".dat" format
 - Load parameter map: load the parameter map onto the controller.
- 4. Parameter filters: apply filters to the parameter map for the controller. The filters are:
 - Group: filter parameters by the group to which they belong
 - Label or MU: filter parameters by name (Label) or unit of measure (MU)
 - **Description**: filter parameters by their description.
 - **NOTE**: The **"X**" to the right of the heading resets applied filters.
- 5. Parameter filters 2: there are 2 pairs of check boxes which act independently from the previous filters:
 - Checked rows/Unchecked rows (*): filters the checked or unchecked rows
 - Valid data/Invalid or missing values (*): filters the rows with or without valid data. (*) If both check boxes in a pair are ticked, all rows are shown.
 - If neither of the check boxes in a pair are ticked, the table will be empty.
- 6. Legend: identifies the text color depending on whether the parameter is read/write (black) or read-only (blue).
- 7. Control bar: the following buttons are shown at the top: (see Buttons and Selectors):
 - Write on...: opens a selection template for the devices onto which the map shown should be copied
 - Print: print the map shown
- 8. Parameter select: tick the box to select/deselect one or more parameters.
- 9. Label: shows the label for the controller parameters (filtered or not).
- 10. Description: shows the description for the controller parameters.
- 11. **Value**: shows value read for the controller parameters (filtered or not) and can be used to change them instantly.

To edit a parameter, simply change its value and click Enter or exit the field

- If writing is successful the cell around the edited field turns green
- If writing is not successful (or the value is outside the range), the entire row turns red. The incorrect
 value continues to be shown. You therefore need to change it to a valid value or delete the field and
 move on to another parameter so that the system reads the current value from the instrument again
- 12. If shown, this means that the Televis**Go** is reading the values on the controller.
- 13. UM: shows the unit of measure (UM) for the parameters (if previously entered on the map and saved).
- 14. **Min**: shows the minimum value the parameter can assume and any reference to other parameters.
- 15. Max: shows the maximum value the parameter can assume and any reference to other parameters.

List of algorithm parameters

The following screen will appear:

Device	-	Label	Description	Value	UM	Min	Max
998.00:02 FloatingSuction	· _	filterD	Type of regulation	001	-	0	99
Commands	- 6	filter1	Thermostat regulation probe 1	edit	2	1	1
Select a command	v —	filter2			8	1	1
Execute			Thermostat regulation probe 2	edit			
Parameter map		filter3	Regulation setpoint 1	view	a	1	1
Save parameter map		filter4	Minimum value settable for setpoint 1	view	8	1	1
Select file No file selected		filter5	Maximum value settable for setpoint 1	edit	a	0	1
Load parameter map		filter6	Differential of set point 1	view	8	1	1
arameter filters	s 🔽	filter7	Regulation setpoint 2	edit	8	1	2
imup All V		filter8	Minimum value settable for setpoint 2	edit	ð	1	2
abel or MU		filter9	Maximum value settable for setpoint 2	edit	4	0	1
lescription		filter10	Differential of setpoint 2	view	8	1	1
Headingtoon		filter11	Differential control mode	edit	ð	1	1
Checked rows		Version	Maximum value that can be displayed	102		102	102
Unchecked rows		Threshold_High	Minimum value that can be displayed	0	%	0	100
Valid data Invalid or missing values		Threshold_Low	Operating mode of setpoint 1 (Heating/Cooling)	0 •• •	%	0	100
		Subset_Cabinets	Operating mode of setpoint 2 (Heating/Cooling)	0 🐽 v		0	10
egend Readvote	- 0	Time_Above_High	Minimum enabling time for compressor output	15 ••	min	5	60
Read only		Time_Between_Low_and_High	Maximum enabling time for compressor output	15 ••	min	5	60
		Offset_Max	ON time for compressor output with faulty regulation probe	0		0	99
		Offset_Min	OFF time for compressor output with faulty regulation probe	0		0	0
		Offset Step Increase	Compressor output enabling delay from request	0		0	1

The different parts of the page are:

- 1. **Controller**: shows the information relating to the selected device: selected device Address, Description and Name
- 2. **Commands**: to select the command to be sent to the device (the list groups together all commands available for all network devices).
- Click "Execute" to execute the selected command. 3. Parameter map: used to load/save a parameter map:
 - Farameter map. used to load/save a parameter map.
 - Save parameter map: saves the parameter map for the controller in ".dat" format
 - Select file: select the parameter map to load onto the controller
 - · Load parameter map: load the parameter map onto the controller.
- 4. Parameter filters: apply filters to the parameter map for the controller. The filters are:
 - Group: filter parameters by the group to which they belong
 - Label or MU: filter parameters by name (Label) or unit of measure (MU)
 - **Description**: filter parameters by their description.
 - **NOTE**: The **"X"** to the right of the heading resets applied filters.
- 5. Parameter filters 2: there are 2 pairs of check boxes which act independently from the previous filters:
 - Checked rows/Unchecked rows (*): filters the checked or unchecked rows
 - Valid data/Invalid or missing values (*): filters the rows with or without valid data.
 (*) If both check boxes in a pair are ticked, all rows are shown. If none of the check boxes in a pair are ticked, the table will be empty.
- 6. Legend: text color depends on whether the parameter is read/write (black) or read-only (blue).
- 7. Print: print the map shown (see Buttons and Selectors):
- 8. Parameter select: tick the box to select/deselect one or more parameters.
- 9. Label: shows the label for the controller parameters (filtered or not).
- 10. Description: shows the description for the controller parameters.
- 11. **Value**: shows a hypertext link or value read for the controller parameters (filtered or not) and can be used to change them instantly. Options are:
 - view: normally present for filters. Click to view the filter loaded by the designer; cannot be changed
 - edit: normally present for filters. Click to view the filter loaded by the designer; can be changed
 - **parameter value**: value read on the controller. A value change, if valid according to the specified limits and the value type, will automatically be sent to the controller for updating
 - Value: shows value read for the controller parameters (filtered or not) and can be used to change them instantly.

To edit a parameter, simply change its value and click Enter or exit the field

- If writing is successful the cell around the edited field turns green
- or, if writing is not successful (or the value is outside the range), the entire row turns red. The incorrect
 value continues to be shown. You therefore need to change it to a valid value or delete the field and
 move on to another parameter so that the system reads the current value from the instrument again
- : if shown, this means that the Televis**Go** is reading the values on the controller.

12.

- 13. **UM**: shows the unit of measure (UM) for the parameters (if previously entered on the map and saved); in the case of filters, it identifies the type of resource (devices or resources).
- 14. Min: shows the following
 - Parameters: minimum value the parameter can assume;
 - Master filters: minimum number of devices;
 - Subsidiary filters: minimum number of resources allowing an output to be restored.
- 15. Max: shows the following
 - Parameters: maximum value the parameter can assume;
 - Master filters: maximum number of devices that can be selected with the filter;
 - Subsidiary filters: the maximum number of resources that can be selected with the filter.

"View" value

Click the "view" hypertext link to open a screen like the one below, showing details of the filter:

Туре	Analog
	✓ State
	Parameter
	Command
ID	STA00016
Name	*

The various parts of the screen are:

- 1. Type of resource used
- 2. Resource ID
- 3. Resource name (optional)
- 4. Output

NOTE: the filter cannot be changed.

"Edit" value

Click the hypertext link to "edit" (10) a master filter and open the screen:

Edit Device Filter	- Selector comp	ressor rack
Find the second	glish 🔻	Add selector
Selector		♠ ♣ ┿ 🖾 ー
📕 Interface ID="*" N	Jame="*"	+ 🗷 —
E Device Addre	ss="*" Name="*" Model	
ave 🚫 Cancel	Copy from default	

The master filter and subsidiary filter act independently of each other.

The types of output resources are a subset of the types of input resources; only network parameters and commands can be set as output resources.

For the subsidiary filters, the * symbol in the **MAX** field indicates no upper limit If the minimum set number is greater than the maximum number, the set of elements is empty.

The selection and rule hierarchy is shown on the left. The buttons have the following meaning:

Button	Description
	Move the selector up a position
	Move the selector down a position
÷	Add a sub-rule (selector > interface; interface > device; device> resource)
	Modify selector or rule
	Delete selector or rule and all sub-rules

A filter consists of at least one selector. Each selector identifies a specific subset of resources and can be additive or subtractive.

An additive selector adds the resources it has filtered to the final set, whereas a subtractive selector removes the resources it has filtered.

NOTE: selector order is significant.

A subtractive filter only makes sense when used to filter the result of the additive filter before it.

To modify a selector, click the relative \square icon.

For more information on the boxes appearing on the right of the screen (see "Scanning").

Once all changes have been made to selector properties, click **a Save**.

		Subsidiary input filter		
	Edit Subsidiary I	nput Filter - Selector suction	setpoint	
Q	Туре	 Analog Digital State Alarm Parameter 		
2	ID Name	INP40124:4-1		
	Save 🚫 Cancel	Copy from default		
requent writing of E		an damage the system memory. result in death, serious injury, or eq	uipment damage.	
		Subsidiary output filter		
	Edit Subsidiary (Output Filter - Selector offset	suction setpoint	
0	Туре	Parameter Command		
2	ID Name	INP40125-1 *		
4	Label	*		
		* devices could be damaged by too frequent EEPRC	DM parameters writings.	
3	Warning: The electronic		DM parameters writings.	

Click the hypertext link to **set** (10) a subsidiary input or output filter and open the screen:

The different parts of the page are:

- 1. Type:
 - for a subsidiary input filter, select the type of element to apply the filter to, either:
 - Analog resource
 - Digital resource
 - State resource
 - Alarm
 - Parameter

For a subsidiary output filter, select the type of element to apply the filter to, either:

- Parameter
- Command
- 2. **ID**: used to filter the resources by their identification number. It only accepts specific combinations of characters, numbers and wildcard characters (? and *). It consists of 3 upper case letters and 5 numbers followed by a hyphen or other text. For example: INP40001-1, ALM00300
- 3. Name: used to filter resources by their name translated into the language selected in the previous step. Allows the use of wildcard characters (? and *)
- 4. Label: only visible if the "Parameter" type is selected (1). Used to select the input or output resource by entering its code (selection is case-sensitive).

Once all changes have been made to selector properties, click **Save**.

Writing on more than one device

Using the "Device parameters list" screen as reference, click Write on ... to access the device selection page where you can write the value of the parameters included in the previous page.

	Interface		ID	Address	Protocol		Fieldbus	
	Serial Adap	oter	0	COM1	Micronet & M	odbus	BusAdapter/Wired RS485	
		Address	Model			Description		Result
<u> </u>		00:01	RTX 6	00/V DOMINO ZER	c	1.00:01 RTX 600	0/V DOMINO ZERO (system)	
l		00:07	RTX 6	00/V DOMINO ZERO	C	RTX 600/V DOM	/INO ZERO	
Ī		05:01	Televis	sln		1.05:01 TelevisIr	1	
ļ		05:02	Televis	sin		1.05:02 TelevisIr	1	
-	Algorithms		998	127.0.0.1	Modbus		Algorithms	-
		Address	Model			Description		Result
l		00:01	Floatin	gSuction		998.00:01 Floati	ngSuction	
1		00:02	Floatin	gSuction		998.00:02 Floati	ngSuction	

The various screen components are:

- 1. Filter devices: used to filter the devices by description
- 2. **Fully compatible**: used to show only the devices that are fully compatible with the first ones where the new parameter values have been entered
- 3. **Device list**: shows the list of selectable devices to which apply the parameter writing should be applied. The Televis**Go** and the reference device cannot be selected
- 4. Control bar: see Buttons and Selectors.

If you click view the last operation report, a screen like this will appear:

	Print
Action details	
Writing the following parameters and values	
On devices	
Errors	
None	
Execution date 9/13/2017 12:00:56 PM	

where the last writing operation performed is shown, along with information regarding on which devices and on which parameters. Click the **Print** button to print the full report.

RVD (Remote Virtual Device)

In the following menu:

℅ Functions > RVD

The following screen will appear:

	Filter devices						5	Expand	Collapse	ð	Cancel filters	
			Interf	ace	ID		Address		Protocol		Fieldbus	
6	Description	F	Serial	Adapter	0		COM1		Mixed native		BusAdapter / Wired RS-485	- 4
J	j <u> </u>			Address			Model			Descrip	tion	
			1	02:00	3		RTX 600/V DOMI	NO ZERO		0.02:00	RTX 600/V DOMINO ZERO	
				02:01		Im	TelevisIn			0.02:01	TelevisIn	
		F	Algori	thms	998		127.0.0.1		ModBus		Algorithms	Ξ
				Address			Model			Descrip	tion	
				04:00			FloatingSuction			998.01:	00 FloatingSuction	
				05:00			TestMAXBug			998.02	00 TestMAXBug	
				05:01			TestMAXBug			998.02	D1 TestMAXBug	
		F	Televi	iGo	999						BusAdapter	
				Address			Model			Descrip	tion	
				14:14			TelevisGo			999.14:	14 TelevisGo	

The different parts of the page are:

- 1. Filter devices: used to filter by device description.
- 2. **Device list**: shows the list of network devices grouped by interface. Only the devices where the function exists and is activated will be displayed.
- 3. RVD access: click a device row to access its RVD.
- 4. Expand/Collapse: expands/collapses the list of devices in an interface.
- 5. Control bar: see Buttons and Selectors.

A picture of the selected device will be shown:

4	0.00:04 EWDR 985 -	Maximize		
			*1320 0000 *1320 0000 *	
Address: 0.02:00 - Model: D 974LX - Description: 0.02:00 ID 974LX				

The Control bar is at the top (see "Buttons and Selectors").

The chart representation is similar to that on the actual device.

The various operations running on the device screen (click buttons, view active LEDs, etc.) are equivalent to working directly on the device.

NOTE: The RVD function is only available for some devices.

Layout

In the following menu:

Functions > Layout

The following screen will appear:

属 Rebuild all layouts
Device
The
Fully compatible
[1.00:01] controller 1
Partially compatible
1.05:00 EWCM 9000 PRO/CO2T/HE (system)
1.11:01 TelevisIn (system) 2.00:02 IDNext 978 P/B

Press Rebuild all layouts, for:

• Layout Designer on external computer: only upgrades the layout list uploaded to the system update page:

└── Computer > Update > System > Layout pages

Reload any new or edited layouts from the system update page.

 Layout Designer pre-loaded in TelevisGo: will update all layouts present (TelevisGo imports any changes made to a layout) and any new layouts will be loaded. In this case, you do not need to load them using the system update page.

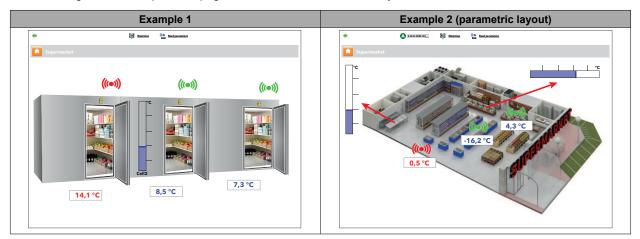
Click one of the names in the list to view the layout associated with it.

If the layout is parametric (valid for a number of devices that are the same and can be selected individually), on the right there will be a drop-down menu from which the user can select the device to be displayed.

In the drop-down menu, the devices will be subdivided as shown below:

- Fully compatible: devices shown at the start of the list, which have all resources present in the layout
- Partially compatible: devices shown at the end of the list, which have some resources present in the layout
- Incompatible: devices which are not shown, and have none of the resources present in the layout.

The same drop-down menu will also be available in the layout screen, and allows the user to switch devices simply by selecting the one required.



Press < to go back to the previous page and view the list of available layouts.

At the top of the general and parametric layout pages there is a Control bar (see "Buttons and Selectors").

Parameters are automatically upgraded <u>only</u> when you open a Layout screen. To manually update the values displayed, press **Read parameters**.

When the mouse cursor is placed on an item, a window appears containing its characteristics.

To edit a parameter, select the value using the mouse, enter the value and press "Enter".

If a valid value is entered, a green message "**Done**" will appear above the text box; otherwise, a red "**Error**" message will appear.

NOTE: For further details regarding the creation/maintenance of a Layout, please refer to the manual: **9MA00237 MAN** Layout Designer EN

Settings

Contents

This section includes the following topics:

Introduction	
Adding/editing a fieldbus interface	108
User management	114
Alarm configuration	117
Scheduler	125
Registration interval settings	137
System general settings	139

Introduction

Description

This section can be used to manage:

- interfaces
- users and groups of users
- alarms (categories, actions, time intervals)
- scheduled actions
- archive configuration
- General settings (Life Test, Alarms, Media, etc.)

Menu structure

SETTINGS	OFTT		1	
Image: Second Stress	SEIII	NGS		
Image: Second Stress			Interfaces	
Image:			Intenaces	
Algorithms				•
Users Groups Users Scheduler Image View Image Archive management Image General settings Image Image <t< th=""><th></th><th></th><th></th><th></th></t<>				
Alarms Actions Time intervals Scheduler Actions Print Archive management Archive management General settings General settings Alarms Alarms Alarms Alarms			i	Algorithms
Alarms Actions Time intervals Scheduler Actions Print Archive management Archive management General settings General settings Alarms Alarms Alarms Alarms			Llooro	1
Alarms Alarms Alarms Alarms Alarms Alarm categories Actions Actions Time intervals Scheduler Actions Actions Print Archive management Archive management General settings General settings Alarms Alarms Alarms Alarms			Users	
Alarms Alarms Alarm categories Alarm categories Alarm categories Attions Attions Time intervals Scheduler Scheduler Actions Print Archive management Archive management General settings General settings Alarms Alarms Alarms				
Alarms Image: Alarms				Groups
Image: Second sections Scheduler Image: Scheduler <			i	Users
Image: Second sections Scheduler Image: Scheduler <			Alerrees	1
Alarm categories Actions Time intervals Scheduler Scheduler Actions			Alams	
Actions Time intervals Scheduler Scheduler Actions New Actions View Actions View Actions View Control General settings General settings Alarms Alarms Hedia				
Scheduler Scheduler View Actions Print Archive management View View View View Manage General settings System Alarms Media				
Scheduler View Actions Print Archive management View View View View Control Manage General settings System Alarms Media			i	
View Actions Print Print Archive management View View Control Manage General settings System Alarms Media				Time intervals
View Actions Print Print Archive management View View Control Manage General settings System Alarms Media			Scheduler	
Archive management Archive management Archive management Archive management Control General settings General settings Alarms Alarms Media				
Archive management Archive management Archive management Control General settings General settings Archive manage Anage			 	
Archive management Archive management View Control Manage General settings System Alarms Media				
View Control Manage General settings System Services Alarms Media				
Control General settings General settings System Alarms Media			Archive management	
General settings General settings System Services Alarms Media			 	View
General settingsSystemServicesAlarmsMedia				Control
System Services Alarms Media			L	Manage
<u>Services</u> <u>Alarms</u> <u>Media</u>			General settings	
<u>Services</u> <u>Alarms</u> <u>Media</u>				System
Alarms Media				•
Media			 	-
011010			 	Others

Settings

Adding/editing a fieldbus interface

Go through the following menu sequence:

Settings > Interfaces > Physical network

Adding an interface

To add an interface:

- 1. click 🗣 Add
- 2. in the "Details" box, select the type of network interface used (SerialAdapter, etc.)
- 3. enter the required information (see below)
- 4. click a Save

Modbus TCP / EthernetAdapter

👎 Detai	ils
	O SerialAdapter
	O LanAdapter
	• EthernetAdapter / Modbus TCP
Interface	Address 192 • 168 • 1 • 1
type	Port 502
Fieldbus	EthernetAdapter / RS-485

The information on the screen is as follows:

- Address: set the IP address for the Modbus TCP interface
- Port: communication port for the device or Modbus/TCP gateway
- Fieldbus: types of selectable networks.

SerialAdapter

👎 Details	5		
	۲	SerialAdapter	
Interface		Port	COM1 •
type		Protocol	Micronet & Modbus
	0	LanAdapter	
	0	EthernetAdapt	er / Modbus TCP
Fieldbus	Bu	sAdapter / Wire	ed RS-485 ▼

The information on the screen is as follows:

- Port: physical communication port used by TelevisGo
- **Protocol**: type of communication protocol.
 - 1. Micronet & Modbus
 - 2. Micronet & Modbus with Smart Adapter (Micronet with Modbus sub-network after a SmartAdapter)
 - 3. Modbus (Micronet & Modbus on the same network)
 - 4. Micronet
- Fieldbus: types of selectable networks.

LanAdapter

👎 Detail	S
	O SerialAdapter
	 LanAdapter
Interface	Address 192 • 168 • 1 • 1
type	Port 56789/45678
	Protocol Micronet & Modbus 🔹
	O EthernetAdapter / Modbus TCP
Fieldbus	LanAdapter •
🤏 Test ut	tility
	This test works wit LanAdapter only Test connection

The information on the screen is as follows:

- Address: set the IP address of the LanAdapter
- Port: physical communication port used by TelevisGo
- **Protocol**: type of communication protocol.
 - 1. Micronet & Modbus
 - 2. Micronet & Modbus with Smart Adapter (Micronet with Modbus sub-network after a SmartAdapter)
 - 3. Modbus (Micronet & Modbus on the same network)
 - 4. Micronet
- Fieldbus: types of selectable networks.

Note: we recommend you always use the "Test connection" button to check communication between Televis**Go** and the **Lan**Adapter interface device.

Fieldbus settings

Fieldbus	Time-out response (ms)	Inter-polling time (ms)	Retries	Ignored communication faults before No-Link	Usual Interface Type
BusAdapter / Wired RS485	300	0	2	2	SerialAdapter
RadioAdapter	800	0	5	2	SerialAdapter
SmartAdapter	600	0	2	2	SerialAdapter
LanAdapter	2000	500	2	2	LanAdapter
LanAdapter Wi-fi	2000	500	2	2	LanAdapter
LanAdapter (RadioAdapter)	3000	800	2	2	LanAdapter
EthernetAdapter / RS485	1500	100	2	2	EthernetAdapter / Modbus TCP
Modbus TCP	1500	100	2	2	EthernetAdapter / Modbus TCP

The fieldbus type settings selects the values and times indicated in the table below:

Editing an interface

To edit an interface:

- 1. in the "Interfaces" box, select the network to edit
- 2. click Edit
- 3. update the data for the physical network
- 4. click ave

Removing an interface

To remove an interface:

- 1. in the "Interfaces" box, select the network to remove
- 2. click **Remove**
- 3. followed by "OK"

Buttons and selectors

lcon	Function	Description
P	Add	Used to add a new interface
	Remove	Used to remove an interface
	Edit	Enables edit mode for an interface
	Save	Save the changes made to the interface
0	Cancel	Cancels and exits without saving the changes made.
	Back	Takes you back to the Equipment > Add device page

Selecting energy resources

Televis**Go** allows you to treat the resources of some devices as energy utilities, i.e. measuring the electricity consumption of a plant. The resources recorded will be saved in a dedicated database that is separate from the one with saved historical data, and with a separate registration interval. In the following menu:

Settings > Interfaces > Energy Resources

The page appearing is:

2 🗐 Save 🔥 Edit	
Registration interval: 01:00:00] 1
~~~~	

The different parts of the screen are:

1. **Registration interval**: used to set the calculation period for data relating to energy resources. To define the interval select the box.

The following window will open:

Set time span days.hours:minutes:seconds
00.01:00:00
ОК

Set the days, hours, minutes and seconds required and confirm with "**OK**". The minimum interval that can be set is 15 minutes.

2. Control bar: see Buttons and Selectors.

**Example**: if you set a period of 1 hour, the system will calculate the corresponding consumption of the energy resource for every hour.

## **Selecting algorithms**

In the following menu:



The following screen will appear:

Filter devices	Interface	ID	Address	Devices	
Description	Algorithms	998	127.0.0.1	10	
	 2 Address	3	Model	Description	4 Period
	00:01		FloatingSuction	998.00:01 FloatingSuction	60
Show helpers	interest in the second		FloatingSuction	998.00:02 FloatingSuction	60
Show table header	00:03		FloatingSuction	998.00:03 SumOf2Probes	60
	00:04		FloatingSuction	998.00:04 SumOf2Probes	60
	01:00		SaturationSensorBackup	998.01:00 SaturationSensorBackup	60
	01:01		SaturationSensorBackup	998.01:01 SaturationSensorBackup	60
	📧 🗹 02:00		CentralizedDewPoint	998.02:00 CentralizedDewPoint	330
	02:01		CentralizedDewPoint	998.02:01 CentralizedDewPoint	330
	iiii 03:00		EnergyPatternDeviationAlert	998.03:00 EnergyPatternDeviationAlert	330
	<b>I 03:01</b>		EnergyPatternDeviationAlert	998.03:01 EnergyPatternDeviationAlert	330

This page shows the list of algorithms previously loaded on the Televis**Go** (see "Updating the system") and relevant settings.

The different parts of the page are:

- 1. **Description**: used to filter by description. The instances of an algorithm all implement the same logic, but should be applied to different input/output data. The number of instances replicated is a pre-set parameter in the algorithm:
  - The maximum number of algorithms managed at the same time by TelevisGo is 16
  - The maximum number of instances managed at the same time by TelevisGo is 16
  - The maximum number of instances per algorithm is 10
- 2. Address: represents the address linked to each instance and is assigned automatically by the application.
- 3. Model: the model of each algorithm is set in the programming phase.
- 4. **Period**: represents the current cycle period of the instance. The period is expressed in seconds, it can take a value between 60 (1 minute) and 86400 (1 day).
- 5. Control bar: see Buttons and Selectors.

The colors of the rows that will appear have the following meanings:

- BLACK: virtual device selected
- GREEN: virtual device available but not selected

Select the instances to be enabled on the virtual interface by ticking the relevant check box near the address (2) and

press the **Save** icon to store the algorithm instance configuration.

#### Notes:

- Before using an algorithm, consult the relevant manual which is available to download from the website www.eliwell.com
- Algorithm: model containing a specific programming code
- Instance: use of the model associated with one or more controllers according to algorithm operation
- When the user loads an algorithm, Televis**Go** (see Updating algorithm drivers), automatically enters the maximum number of instances anticipated for that algorithm without activating them
- · Selecting the box on the left-hand side of an algorithm instance activates it.

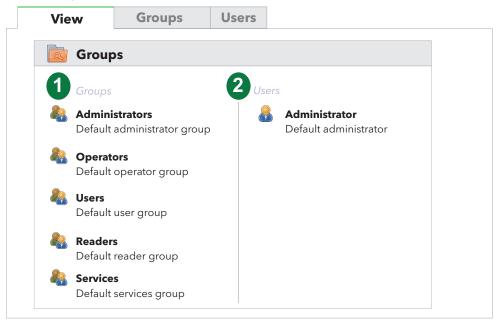
# **User management**

## Viewing groups and users

In the following menu:

# $1 \xrightarrow{(i)}$ Settings > Users > General view

The following screen will appear:



The different parts of the page are:

- 1. Groups: list of all groups recorded in the system.
- 2. Users: list of all users recorded in the system, divided by group.

Note: On first start-up, the following are present:

- 5 pre-registered groups
- 1 "Administrator" user.

Various users will therefore need to be created with the relevant permissions and belonging to specific groups.

## **Group management**

In the following menu:



The following screen will appear:

	Groups			2 🔍	Details	
	Name	Description			Enabled	
~	Administrators	Default administrator group				
~	<b>Operators</b>	Default operator group			Name*	Administrators
~	<u>Users</u>	Default user group				
~	Readers	Default reader group			Description	Default administrator group
×	Services	Default services group				
						Application/languages upgrade     Drivers update
						Licence upgrade     Controller network and equipment     configuration     Alarm management     Alarm acknowledgement

The different parts of the page are:

- 1. Groups: lists all groups recorded in the system.
- 2. Details: used to set the name and description of a group (active only after pressing **Add** or **be Edit**).
- 3. **Permissions**: used to set the permissions associated with the specific group, enabling/disabling the option of updating/configuring one or more functions (active only after pressing **Add** or **Edit**).
- 4. **Control bar**: see Buttons and Selectors.

To edit the Group Permissions, you must be logged in as Administrator or have the necessary authorization credentials for User/group configuration.

The first time it is accessed, the following groups are present, with the corresponding permissions:

- · Administrators: administrators
- · Operators: operators
- Users: users
- Readers: readers
- Services: general services

For example: if we set the option "Layouts - Writing permissions":

- Check box ticked: users belonging to the group will have full control of the layout pages (they can change the values of variables, perform commands, etc.)
- Check box not ticked: users belonging to the group can only view the layout pages.

## **User management**

In the following menu:



The following screen will appear:

Users			2 Q Details	
Group	User name	Description	3 🗹 Enabled	
Administrators Operators	<ul> <li><u>Administrator</u></li> </ul>	Default administrator	4 Group*	Administrator v
Users Readers			5 User name*	Administrator
Services			6 Password	*****
			7 Description	Default administrator
			Description	Delaurauministrator

The different parts of the page are:

- Users: lists all users recorded in the system, divided by group. When first accessing the page, only the "Administrator" user will be present.
- 2. **Details**: view/edit a user's data
- 3. Enabled: the tick enables the user
- 4. Group: select the group in which to enter the user. The group should already have been created.
- 5. User name: set the name assigned to the user.
- 6. **Password**: set the password assigned to the user.

The password must contain:

- 8 characters
- 1 numerical digit (0, 1, ..., 9)
- 1 uppercase letter (A, B, ..., Z)
- 1 lowercase letter (a, b, ..., z)
- 1 special character (\|¬'`!" £\$%^&*()_+-=[]{};:'@#~<>,./?)

To the left of the password box is an indicator:

- RED: indicates that the password does not meet the minimum requirements
- **GREEN**: indicates that the password is valid
- GREY: indicates that the password has not been changed
- 7. **Description**: enter any notes relating to the user. The 3 lines in the bottom right-hand corner can be used to enlarge the text box.
- 8. **Expiration**: after saving the user, this shows the expiry date of the password in dd/MM/yyyy format. If set not to expire, it will show "never".
- 9. **Expiry period**: selects the password expiry period. The pre-set periods are:
  - 90 days
  - 180 days
  - 1 year
  - never
- 10. Control bar: see Buttons and Selectors.

NOTE: Only an administrator (Administrator) can add, edit or remove users and groups.

**NOTE**: Each user can change their own password by selecting "Change password" from the current user menu (see Status bar).

**NOTE**: When the password expires, the user will be redirected straight to the change password page (see Changing the password). Once it has been changed, they will be taken to the "Home" page.

# **Alarm configuration**

### **Overview**

In the following menu:

## Settings > Alarms > View

The following screen will appear:

脑 Alarm ca	tegories			
Level	Escalate	Name	Actions	Time intervals
1 📼 🕪		Level 1	Mail	Always
1 📼 ((•))		<u>Universal</u>		
2 📼 🐻	0	Level 2	Mail	Always
2 📼 🐻	*	Level 2 - Escalate	Mail	Always
3 🛋 ((••))	0	Level 3	Mail	Always
3 🛃 🍋	<b></b>	Level 3 - Escalate	Mail	Always
4 🛋 🚳		Level 4	Mail	Always
4 🚠 🐻	*	Level 4 - Escalate	Mail	Always

The different parts of the page are:

- 1. Level: identifies the level assigned to the alarm category
- 2. Escalate: enable or disable the checking of higher levels:
  - The escalate to higher levels active
  - 📮 = escalate to higher levels deactivated.
- 3. **Name**: view the name assigned to the alarm category.
- 4. Actions: lists the alerts activated for the alarm category.
- 5. Time intervals: lists the time intervals in which the alarm category is active.

## Alarm management rules

Alarms are categorized to allow association of a series of actions within specific time intervals

In the event of an **Alarm**, the system will check whether it is managed, on which device it occurred, whether it belongs to a valid category and if it was activated during a valid interval. If all conditions have occurred, the actions set in the valid alarm categories will take place in accordance with a level-based system.

TelevisGo sends an alarm alert to all correctly configured and enabled recipients.

The methods used by Televis**Go** to send alarms are guided by the concepts of "Level" and "Escalate" (see Alarm categories).

Level	Expected behavior
Level x (where x=4,3,2,1)	The software checks the alarm categories starting from Level $\mathbf{x}$ , and runs the notifications for all those which satisfy the criteria.
Level x – Escalate (where x=4,3,2,1)	If at least one of the alarm categories in the previous point is marked as "Escalate", the software proceeds to check the higher level (from 4 to 1).

## **Alarm categories**

To set the alarm categories, go through the following menus:

## Settings > Alarms > Alarm categories

The following screen will appear:

Alarm categories	2 🗟 Details			
lame Level	Name*	🗸 Enabled 🔽 Escalat	e 🖆 🚧 Level: 1	3
evel 1 📼 🕪	Actions and time intervals			<u> </u>
niversal 1 🖿 🙌	Actions 4			Time intervals 5
wel 2 2 📼 💑				
evel 2 - Escalate 2 📰 💑	Mail: change@email.address Modo_Eco: 1.00:01 RTX 600/V DOMINO ZE	-RO (system) Auxiliary output On and	Auxiliary output On	Always: always
evel 3 3 🖬 👀	Phone Call: +390000000			
evel 3 - Escalate 3 🖬 👀	SMS: +39000000			
evel 4 - Escalate 4 🖬 🖓	G Filters			
wel 4 - Escalate 4 🖬 🕬		-		
	All devices	7 Filter devices		8 All alarms 9 Alarms filter
	Interface	Address	Device	Description 12
	Serial Adapter	COM1	11 -	<ul> <li>Maximum voltage threshold exceeded</li> </ul>
			·· · · ·	
				Minimum voltage threshold exceeded
	Description			Minimum voltage threshold exceeded RTA battery low alarm
	Description	DOMINO ZERO (system)		
	Description	DOMINO ZERO (system)		RTA battery low alarm
		DOMINO ZERO (system) D ZERO		RTA battery low alarm RTA battery low alarm No link
	Description     1.00-01 RTX 600/V E	DOMINO ZERO (system) D ZERO	<u> </u>	RTA battery low alarm     No link     Device Changed
		DOMINO ZERO (system) D ZERO		
		DOMINO ZERO (system) D ZERO		RTA battery low alarm       No link       Device Changed       High alarm reg. 1       Low alarm reg. 1
	Description     1.00:01 RTX 600V D     I.00:08 RTX 600V D     I.05:05 Televialn	DOMINO ZERO (system) ) ZERO DOMINO ZERO		RTA battery low alarm       No link       Device Changed       High alarm reg. 1       Low alarm reg. 1       Probe Al error 1
		DOMINO ZERO (system) D ZERO DOMINO ZERO		
	Description     1.00:01 RTX 600V D     I.00:08 RTX 600V D     I.05:05 Televialn	DOMINO ZERO (system) DZERO DOMINO ZERO 127.0.0.1		RfA battery low alarm       RfA battery low alarm       Device Changed       High alarm reg. 1       hobe Al error 1       Probe Al error 2       Probe Al error 3

The different parts of the page are:

- 1. Alarm categories: view the set "Alarm categories".
- 2. Name: set the name to be assigned to the alarm category.
- 3. **Setting**: used to set the following characteristics:
  - Enabled: enable/disable "Alarm category".
  - Escalate: enable or disable the checking of higher levels.
  - ' 🚈 : the "All devices" check box has been selected.
  - is a list of specific devices was selected.
  - (i): the "All alarms" check box has been selected.
  - (W) : a list of specific alarms has been selected.
  - Level: Depending on what has been set in points (6), (7), (8) and (9), the "Alarm Category" is assigned a level from 1 to 4 according to:

Level	Level 1	Level 2	Level 3	Level 4
Select devices	All	All	Select	Select
Select alarms	All	Select	All	Select

- 4. Actions: used to select which actions to execute.
- 5. **Time intervals**: used to select when to execute the selected actions. By default only "Always: always" is present. The set time intervals are listed as an addition (see Time intervals)
- 6. All devices: select all network devices.
- 7. Filter devices: used to filter the devices to which the actions are applied by description.
- 8. All alarms: select all network alarms.
- 9. Alarms filter: used to filter the alarms by description.
- 10. Interface: select all the devices in a network interface.
- 11. Select devices: select one or more devices from the list.
- 12. Select alarms: select one or more alarms from the list.
- 13. Control bar: see Buttons and Selectors.

The Televis**Go** always and exclusively takes set categories into account, and always begins at Level 4, where present. If there are several categories at the same level, the device will run them all.

Once the Level 4 category actions are complete (if applicable), if at least one Level 4 category has the "Escalate" flag selected, the system will check for Level 3 categories and carry out the procedures. The same applies to the other levels.

If the "**Escalate**" flag is selected in a Level 4 category is selected, the system will check for the first configured category of a higher level and carry out the procedures, regardless of whether the level is 3, 2 or 1.

To select an alarm you must first select the device for which you wish to view the alarms, or select all devices to view the list of all alarms.

If several time intervals are associated with the same category, they are considered as grouped together (except in the case where one of the intervals is "Always = always", which becomes "always").

## Actions

To set the actions to be performed in the event of an alarm, go through the following menus:



The following screen will appear:

Actions			🔦 Details			
Name Mail Phone Call	Settings change@email.address +390000000		Enabled	TelevisTwin	· 3	
SMS	+39000000	4	Name			
			Address			Port
			Address 1			Port
			Address 2			Port
			SMS			
			Signals	strength: Not available		

The different parts of the page are:

- 1. Actions: all set "Actions" are shown.
- 2. Enabled: tick the check box to Enable/Disable the execution of the selected action.
- 3. Type: used to set the type of action being set.
- 4. Name: used to set the action. The field sequence varies according to the "Type" selected in point (3).
- 5. Control bar: see Buttons and Selectors.

5 different types of action may be created:

- TelevisTwin: enter the IP addresses of a TelevisTwin to which any alarm messages should be sent
- Mail: enter an email address to which any alarm messages should be sent
- SMS via modem: enter the telephone number you want SMS messages to go to in the event of an alarm
- Phone Call: enter the telephone number you want to call in the event of an alarm
- Commands: set the commands to be sent to one or more devices in the event of an alarm.

Selecting from the drop-down menu (3) will vary the dependent controls (4).

Actions are only active when entered in an alarm category.

#### One of the following windows opens:

A - TelevisTwin	B - Mail	C - SMS via modem
📮 Details	📮 Details	Details
Enabled	Enabled	✓ Enabled
Type: TelevisTiwin Name Address Address Port Address Port Address Port SMS Send tetrSMS Make test phone call	Type: e-mail	Type: SMS via Modern * Name Telephone number #390000000 Validate Signal strength: Not available
D - Phone Call		E - Commands
📮 Details		📮 Details
Carbled		Z Enabled
Type: Phone Call		Type: Commands V
Name		Name
Telephone number +390000000	Validate	Device Ambient monitor and TGO V
Signal strength: Not available		Command on activating alarm Command Alarm silencing on output 1
		Command on inactivating alarm Command Alarm slencing on output 1

Once all selections have been made, click  $\blacksquare$  Save to save the changes or  $\heartsuit$  Cancel to cancel them.

## A. TelevisTwin:

- Name: enter the name assigned to the action
- Address: enter the IP address of the device (for example: 192.168.0.23) and the corresponding port (for example: 8080)
- Address 1: enter an alternative IP address 1 and the corresponding port
- Address 2: enter an alternative IP address 2 and the corresponding port
- SMS: enter the telephone number you want SMS messages to go to (for example: +39 333 7600000)
- Signal strength: indicates the signal strength of the modem connected to TelevisGo (as a %)
- · Send test SMS: sends a test text message to the entered number
- Test telephone call: tries to call the entered telephone number.
- B. Mail:
  - · Name: enter the name assigned to the action
  - · e-mail: enter the email address to which alarm alerts should be sent
  - Validate: is used to validate the email address. If it is correct, the LED turns GREEN.

### C. SMS via Modem:

- Name: enter the name assigned to the action
- Telephone number: enter the telephone number you want SMS messages to go to (for example: +39 333 7600000)
- · Validate: is used to validate the telephone number. If it is correct, the LED turns GREEN
- Signal strength: indicates the signal strength of the modem connected to TelevisGo (as a %).

#### D. Phone Call:

- · Name: enter the name assigned to the action
- Telephone number: enter the telephone number to be called (for example: +39 333 7600000)
- Validate: is used to validate the telephone number. If it is correct, the LED turns GREEN
- Signal strength: indicates the signal strength of the modem connected to TelevisGo (as a %).

#### E. Commands:

- Name: enter the name assigned to the action
- Device: indicates which device within the network is to be targeted
- Command on activating alarm: indicates what the device has to do if an alarm is activated
- Command on inactivating alarm: indicates what the device has to do after an alarm has been deactivated.

Remember to enter the international dialing code of the Recipient before the telephone number, for both telephone calls and SMS messages (for example: for ITALY enter +39).

## **Time intervals**

To set the time intervals, go through the following menus:

# Settings > Alarms > Time intervals

The following screen will appear:

	🕞 Add 🛛 🥁 Remove 🕞 Edit 🔚 Save 🚫 Cancel 5
1 📄 Time intervals	Q Details
Name Settings ✓ ₽1 from Monday at 00:00 to Sunday at 23:55	Name*     Sun Mon Tue Wed Thu Fri Sat       2 Type:     Daily       3 01 • 00 •     > 01 • 00 •

The different parts of the page are:

- 1. Time intervals: shows all the set "Time Intervals".
- 2. Type: used to set the type of time interval.
- 3. **Period**: used to set the time period associated with the interval (the fields vary according to the type of interval selected).
- 4. Chart: chart representing the set time interval.
- 5. Control bar: see Buttons and Selectors.

3 different types of time interval can be created:

- Daily
- Weekly
- Monthly

Selecting from the drop-down menu will vary the dependent controls.

Depending on the type of interval selected, the following windows open:

A - Daily		
📮 Details		
Name*	Sun Mon Tue Wed Thu Fri Sat	
Type: 08 ▼ 00 ▼ > 19 ▼ 00 ▼		

Details Name*	
Name*	
	Sun Mon Tue Wed Thu Fri Sat
Type: Weekly ▼ Periodic ▼	
Monday	
08 ▼ 00 ▼ > 17 ▼ 00 ▼	
📮 Details	
Name*	Sun Mon Tue Wed Thu Fri Sat
Type: Weekly	
Monday • @ 08 • 00 • Friday • @ 17 • 00 •	
C - Monthly	
📮 Details	
Name*	
Type: Monthly • Periodic •	
01 • 31 •	
08 • 00 • > 18 • 30 •	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	19 20 21 22 23 24 25 26 27 28 29 30 31
📮 Details	
Name*	
Type: Monthly	
01 • @ 08 • 00 •	
31 · @ 18 · 30 ·	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	19 20 21 22 23 24 25 26 27 28 29 30 31

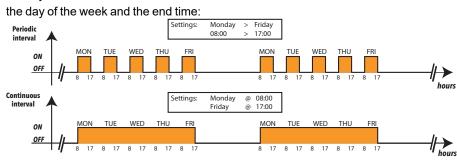
## A. Daily time period:

- Name: to enter the name assigned to the interval
- Interval: the 2 selection boxes are used to set the start and end time valid for every day (example: 08.00 > 19.00 indicates from 08.00 in the morning to 7.00 in the evening; 19.00 > 06.00 indicates from 7.00 in the evening to 06.00 the following morning)

### B. Weekly time period:

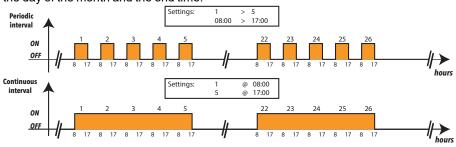
•

- Name: to enter the name assigned to the interval
- Periodic: here you should set:
  - the days of the week involved (from  $\rightarrow$  to)
  - the time period involved (from  $\rightarrow$  to) on each day
- Continuous: here you should set:
  - the day of the week and the start time



### C. Monthly time period:

- Name: to enter the name assigned to the interval
- Periodic: here you should set:
  - the days of the month involved (from  $\rightarrow$  to)
  - the time period involved (from  $\rightarrow$  to) on each day
- Continuous: here you should set:
  - the day of the month and the start time
  - the day of the month and the end time:



**NOTE**: the "ALWAYS" time interval is pre-set as part of the system and cannot be deleted (it selects 24 hours for all days of the week).

## Scheduler

## Introduction

Televis**Go** can automatically run actions that have been scheduled by users in line with a programmable time schedule.

There are three types of scheduled activities:

- · Send command to one or more devices.
- · Write parameters to one or more devices.
- · Data export

Scheduled activities can have one of three types of frequency:

- · Periodic: the action is carried out periodically, with the frequency defined by the user
- Daily: the action is carried out every **n** days at one or more times during the day
- Weekly: the action is carried out every n weeks, on specific days and at one or more times during the day.

Each scheduled action has a validity interval, defined by a start date and an end date.

The action is therefore performed in accordance with the set schedule. If the action fails, Televis**Go** continues to attempt to execute it at user-defined intervals up to a maximum time, as set by the user. If the maximum duration is set to **0** or if it is less than the re-attempt interval, no further attempts will be made.

The scheduled actions apply to a selection of devices in the current configuration and are used to optimize activity.

If the user sets many actions to be carried out frequently, it may cause delays in the transmission of signals and/or malfunctioning. Similarly, generating frequent exports may cause an excessive number of files to be created which, in time, may slow the machine down or lead to malfunctions if they are not moved from the folder inside the Televis**Go** to an external network folder.

# NOTICE

## **INOPERABLE DEVICE**

- Do not use the "Scheduled actions" function to manage critical actions.
- Set up a network folder outside the TelevisGo if you anticipate a lot of data exports being generated.

Failure to follow these instructions can result in equipment damage.

## **General view**

In the following menu:



The following screen will appear:

📩 Sch	eduled actions	:		
1	2	3	4	5
Type	Name	Description	Schedule	Next execution
<u></u>	Defrost	Send command: Manual Defrost activation (1 device)	Every week on Sunday, Wednesday and Saturday at 09.30 and 12.30 (beginning on 31-Jul-11 22.00)	30-Jun-18 09.30
Ê	Writing maps	Write parameter map: Map_1.dat (16 devices)	Execution on demand	
	Setpoint	Export data into 'C:\Eliwell\TelevisDB\Exports' using profile: DefaultGraph (13 devices)	Every week on Sunday at 16:05 (beginning on 8-Jun-18 12:02)	28-Jun-18 05.00

The different parts of the page are:

- 1. **Type**: identifies the type of scheduled action:
  - Sending a command
    = Writing parameters
    = Data export
- 2. Name: is a user-defined label.
- 3. **Description**: describes the activity that will be performed; the number of devices it will be applied to is given in brackets.
- 4. Schedule: describes the frequency of the activity.
- 5. Next execution: states the next day/time the activity will be performed.

## Managing scheduled actions

To edit the scheduled actions, enter the following menus in sequence:

# $\overset{(\bigcirc)}{\bigcirc}$ Settings > Scheduled actions > Actions

The following screen will appear:

5 🗔 Add	Remove 🗾 Edit 🔲 Save 🚫 Cancel 🔍 Preview
1 Actions 2	Action
Actions Name Type Defrost Writing Map Setpoint 3	Name   Type   Command   Device On     Command   Device On     Command     Periodic     Ending date   Ending date      Period   Period   Image: Device On
4	Retry interval     00:05:00       Oevices     All devices   Filter devices
	Interface Address Device
	Serial Adapter COM1 4
	Description
	1.00:04 RTX 600/V DOMINO ZERO (system)
	1.02-03 RTX 600/V DOMINO ZERO (system)
	I.11:01 Televisin (system)       Image: Controller 1 - demo
	Algorithms 127.0.0.1 2
	Description
	998.00:01 FloatingSuction
	998.00:02 FloatingSuttion

The different parts of the page are:

- 1. Actions: list of actions.
- 2. Action: section for creating/editing an action.
- 3. Schedule: section for setting when to run an action.
- 4. Devices: section for selecting the devices on which the actions will run.
- 5. Control bar: see Buttons and Selectors.

The part on the right is split into 3 sections:

## Action

The Action section allows you to set the Type of action to be performed.

	Type of action: Command
👍 Actio	n
Name	Enabled
Туре	Command V
Command	Instrument on V
	Instrument on
	Instrument off
	Energy saving function activation Energy saving function deactivation
	Economy Mode On
	Economy Mode Off
	Lights On Lights Off
	Keypad Locked
Used to set the typ	be of <b>command</b> to run on the devices selected by the filter:
• Name: name	associated with the action
• Type: Action	= Command
• Command: d	rop-down menu displaying the complete set of commands for all the devices in the network configuration.
To make the actio	n effective, click on <b>"enabled"</b> .
	Type of action: Parameter writing
🔒 Actio	n
Name	Enabled
Туре	Parameter writing V
Туре	Parameter map V
File name	Map_1.dat
File fiame	
	e electronic devices could be damaged by too
frequent EE	PROM parameters writings.
Used to set the na	me of the map file to apply to each execution of a <b>parameter map writing</b> action.
	ies the name associated with the action
	= Writing parameters
• Type: Parame	eters map
• File name: na	ame of the file containing the map to be uploaded.
For the Televis <b>Go</b>	to be able to perform the operation, the map file must be uploaded from the system update page.
	<b>A</b>
UNINTENDED E	EQUIPMENT OPERATION
	of EEPROM parameters can damage the system memory.
Failure to follow	v these instructions can result in death, serious injury, or equipment damage.

📮 Ac	tion					
Name				🔽 Enabl	led	
Туре	Parameter	s writing	~	]		
Туре	Parameter	S	$\checkmark$			
Paramet	ers					
Label				(case sensitive	e)	
Value			<u> </u>			
Value			•			
	Label	Value				
	Set	-2				
	HAL	1				
	LAL	-5				
		devices could meters writings		naged by too		
Used to manuall At least one para			rite and	I their value at eac	ch exec	ution of the individual <b>parameter writing action</b> .
• Name: ident	tifies the name a	ssociated with th	e actior	ı		
<ul> <li>Type: Action</li> <li>Type: Parar</li> </ul>	n = Writing parar meters	neters				
• Label: name	e of the paramete	er to be uploaded	ł			
Value: value	e to write in the p	arameter				
To enter a new p	parameter, fill in t	he Label and Va	lue field	ls and click 🛨. T	he labe	l/value pair will be added to the list below.
						write it as soon as another pair of values is entered
Televis <b>Go</b> check	s for label duplic	cations. Values a	ssociate	ed with duplicated	labels	will be overwritten.
To remove a pre	viously inserted	label/value pair f	rom the	e list, click the 💻	button.	
NOTE: for the Te	elevis <b>Go</b> label th	ere is a distinctio	n betwe	een uppercase an	nd lower	case letters (case-sensitive).
					IG	
Frequent writing		arameters can da		he system memo ath, serious inju		equipment damage.

	Type of action: Data export	
🔒 Action		
Name	Enabled	
Туре	Data Export 🗸	
Period	Flash V	
✓ Folder:	C:\Eliwell\TelevisDB\Exports	
Email recipient	s: Validate	
Used to export data	from the previous day (from 00:00 to 24:00) as selected via the filter.	
	s the name associated with the action	
Type: Action =	•	
<ul> <li>Period: immedi</li> <li>Programming:</li> </ul>		
	following actions can be set:	
	ler in which to save the data and its format (.csv, .pdf or both).	
Print: print data		
	ts: the emails to which the data should be sent. When an email is entered, it must be valid	dated. If it is correct, the
LED turns GRE	EN.	
Action		
Name	Enabled	
Туре	Data Export 🗸	
Period	Daily V Undersampling None V Export variations	
V Folder:	C:\Eliwell\TelevisDB\Exports Export to CSV Export to PDF Print	
Email recipients	s: Validate	
Used to export data	from the previous day (from 00:00 to 24:00) as selected via the filter.	
	s the name associated with the action	
<ul> <li>Type: Action = 1</li> <li>Period: Daily</li> </ul>	Data export	
<ul> <li>Period: Daily</li> <li>Programming:</li> </ul>	daily	
Undersampling	<b>g</b> : if the value is <b>None</b> , all data from the previous day will be exported (from 00:00 to 24:0 different, only the data read every <b>x</b> minutes/hours will be exported (where $x = 5$ min, 15 m	
Export variation     also be exporte	<b>ons</b> : if selected, events (variations of the values) that have taken place at times other thar d.	n those programmed will
One or more of the f	following actions can be set:	
	ler in which to save the data and its format (.csv, .pdf or both).	
<ul> <li>Print: print data</li> <li>Email recipien</li> </ul>		dated If it is correct the
Email recipien     LED turns GRE	i <b>ts</b> : the emails to which the data should be sent. When an email is entered, it must be valid EN.	ualeu. II II IS COITECI, INE

Action	
Name	Enabled
Туре	Data Export V
Period	Weekly V Undersampling None V Export variations
✓ Folder:	C:\Eliwell\TelevisDB\Exports
Email recipients:	Validate
Used to export data fr	rom the previous week (from 00:00 Monday to 24:00 the following Sunday) as selected via the filter.
•	the name associated with the action
<ul> <li>Type: Action = D;</li> </ul>	
Period: Weekly	
Programming: V	Veekly
Undersampling	: if the value is <b>None</b> , all data from the previous day will be exported (from 00:00 to 24:00). Iferent, only the data read every <b>x</b> minutes/hours will be exported (where <b>x</b> = 5 min, 15 min, 30 min, 1h, 2h, 3h
Export variation     also be exported.	$\mathbf{s}$ : if selected, events (variations of the values) that have taken place at times other than those programmed w
One or more of the fol	llowing actions can be set:
• Folder: the folder	r in which to save the data and its format (.csv, .pdf or both).
• Print: print data	
Email recipients     LED turns GREE	: the emails to which the data should be sent. When an email is entered, it must be validated. If it is correct, th N.

## NOTES:

- multiple email addresses should be separated by ";"
- The profile for the exported data can be created/edited using the "Historical data" function
- The default is "System_HACCP" which exports the values of the first probe and defrost status of the instruments in the network.

## **Programming:**

The Schedule section is used to define the Type of schedule.

		Туре	of scheduling: Periodic
Q Schedule			
Туре	Periodic 👻		Set time span
Starting date	10-10-2012 @ 10:38		days.hours:minutes:seconds
Ending date	12-10-2012 @ 10:38		01.06:00:00
Period	01.06:00:00		
			ОК
Retry duration	01:00:00	(	
Retry interval	00:05:00		
Periodic sched	ule requires the user to c	define:	
• Type: type	of schedule		
	start date and time of the	e schedule	
Start date:	end date and time of the	schedule	
		ction (days:hou	rs:minutes:seconds). A window opens (top left-hand corner) in which to enter
	followed by clicking OK	of the action re	try attempts in the event that an action fails
-			g the action again in the event that an action fails.
-	-		he time set in the <b>Start date</b> box.
in the example,	the action will be carried		
		Ту	be of scheduling: Daily
Schedule			
Туре	Daily -	Execution times	
Starting date	10-10-2012 @ 10:38	Time 03:00 -	Select a time
Ending date	12-10-2012 @ 10:38		03:00
Period	1		ОК
Retry duration	01:00:00		
Retry interval	00:05:00		
Daily schedule	requires the user to defir	ne:	1
• Type: type	of schedule		
	start date and time of the	e schedule	
Start date:	end date and time of the	schedule	
			when the action must be executed. A window opens (top left-hand corner) The time will be added to the list. Repeat the procedure to add new times.
To remove	a time added to the list, o	click the button	
• Period: how	w often in days the actior	n must be execu	ted
<ul> <li>Retry dura</li> </ul>	tion: maximum duration	of the action re-	try attempts in the event that an action fails
-			
-	<b>val</b> : how long to leave be	efore performino	g the action again in the event that an action fails.

In the example, the action will be carried out every day at 3:00.

#### Type of scheduling: Weekly Schedule 0 • Туре Daily Week 🔽 Sunday Select a time 10-10-2012 @ 10:38 Starting 🗌 Monday 12:30 ☐ Tuesday 12-10-2012 @ 10:38 Ending date Vednesday ок Period 1 🗌 Thursday 🗌 Friday V Saturday 01:00:00 Retry duration Retry interval 00:05:00 Weekly schedule requires the user to define: • Type: type of schedule Start date: start date and time of the schedule Start date end date and time of the schedule **Execution times**: one or more times during the day when the action must be executed. A window opens (top left-hand corner) in which to enter the time, followed by clicking OK. The time will be added to the list. Repeat the procedure to add new times. To remove a time added to the list, click the button • Week: on which days of the week the action is to be executed. If no day is selected, on saving, TelevisGo will automatically select Sunday. • Period: every how many weeks the action must be executed • Retry duration: maximum duration of the action retry attempts in the event that an action fails Retry interval: how long to leave before performing the action again in the event that an action fails. • This type of event will be carried out at the first available time, on the date and at the time set in the Start date box.

In the example, the action will be performed every week on Sunday, Wednesday and Saturday at 9:30 and 12:30.

#### **Devices**

The **Devices** section is used to select the devices belonging to the network to which the action being set is to be applied.

🔍 Devi	ces			
1 -	All devices		2 Filter devices	
	Interface	Address	Device	
	Serial Adapter	COM1	4	
	Description			
	1.00:04 RTX 600/V DOMINO	ZERO (system)		
	1.02:03 RTX 600/V DOMINO	ZERO (system)		
	1.11:01 TelevisIn (system)			
	Controller 1 - demo			
	Algorithms	127.0.0.1	2	
	Description			
	998.00:01 FloatingSuction			
-	998.00:02 FloatingSuction			

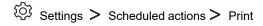
The different parts of the page are:

- 1. All devices: select all network devices.
- 2. Filter devices: used to filter network devices by description. The page shows only the devices which satisfy the filter.
- 3. Interface: used to select all devices with the same interface by ticking the relevant check box.
- 4. Devices: used to select the individual devices on an interface by ticking the relevant check box.

- Print

## Printing exported data

To view a list of the **Data Export** procedures performed, enter the following menus in sequence:



## The following screen will appear:

154		
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130404_000000pdf] - [21658 Bytes] - [4/4/2013 3:00:03 AM]	Open
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130403_000000pdf] - [21620 Bytes] - [4/3/2013 3:00:03 AM]	Open
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130402_000000_pdf] - [21695 Bytes] - [4/2/2013 3:00:19 AM]	Open
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130401_000000RECOVERY.pdf] - [37350 Bytes] - [4/2/2013 3:00:14 AM]	Open
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130327_000000_pdf] - [21700 Bytes] - [3/27/2013 3:00:06 AM]	Open
	[DataExport_EliwellSupermarket_Daily_StampaTemperatureHACCP_20130326_000000_pdf] - [21633 Bytes] - [3/26/2013 3:00:04 AM]	Open

In the figure above, TelevisGo shows a list of previously saved Data Export files and their details.

## **Customizing reports**

The reports have no headings, unless this is expressly specified by the user.

The orientation of the report changes according to whether real-time data or historical data is being printed:

- Real-time data: the report will be in portrait
- Historical data: the report will be in landscape

Headings use the same graphic elements (logos, images, titles).

The following is an example of an historical report with the heading shown:

€li	0		2 TITLE LINE Subtitle line 1 Subtitle line 2	₃ Televis <b>Go</b>
Time (Date)	0.00:04 EW 985 LX Anal input 1	DR 0.00:05 EWDR logue 985 LX Analogue input 1		
08.57.16 (05/09)	-23.6	-7.4		
09.12.16	-23.6	-7.4		
09.27.16	-23.6	-7.4		
09.42.17	-23.6	-7.4		
09.57.16	-23.6	-7.4		
10.12.16	-23.6	-7.4		
10.27.16	-23.6 -23.6	-7.4 -7.4		
10.42.17 10.57.16	-23.6	-7.4		
11.12.16	-23.6	-7.4		
11.27.16	-23.6	-7.4		
11.42.17	-23.6	-7.4		
11.57.15	-23.6	-23.3		
12.10.33	-23.6	-7.4		
12.23.50	-23.6	-7.4		
12.38.51	-23.6	-7.4		
12.53.51	-23.6	-7.4		
12.57.33	-23.6	-7.4		
13.12.33	-23.6	-7.4		
13.27.33	-23.6	-23.3		
13.42.33	-23.6	8.4		
13.57.34	-23.6	8.4		
14.12.34	-23.6 -23.6	-7.4 -7.4		
14.27.34 14.42.34	-23.6	-7.4		
14.42.34	-23.6	-7.4 -23.3		
15.12.34	-23.6	-23.3 -7.4		
15.12.34	-23.6	-7.4		
15.42.34	-23.6	-23.3		
15.57.35	-23.6	-7.4		
16.12.34	-23.6	-7.4		
16.28.03	-23.6	-7.4		
16.43.03	-23.6	-7.4		
16.58.03	-23.6	-7.4		
17.13.03	-23.6	-7.4		
17.28.04	-23.6	-7.4		
17.43.03	-23.6	-23.3		
17.58.03	-23.6	-7.4		
	name: Eliwell Supe oril 2013 03:00:01	ermarket	1: Active - (	0: Sleeping Page 1 of

To customize a report heading, access the following folder in TelevisGo:

### C:\Eliwell\\CustomReports

Once the editing/customization of one or more files in the list is performed, it is necessary to **restart the service** to apply the changes.

This folder contains the following files:

- A. logo-left.png:: contains the logo that will appear to the left of the heading (1).
- B. logo-right.png:: contains the logo that will appear to the right of the heading (3).
- C. ReportTemplate.xml: this is the report template and can be used to set the three lines of text (2).

#### Editing PNG files (files A & B)

Replace the PNG files with the logos or images that need to be inserted in the report title. The positions will be as follows:

- logo-left.png: logo/image that will appear to the left of the header (1)
- logo-right.png: logo/image that will appear to the right of the header (3)

The default files contain the Eliwell logo and the TelevisGo (see example).

The images will be sized to adapt them on the report header.

The images will not be displayed if files are removed or if the file names do not correspond to the content in the template (file C).

#### Editing XML files (file C)

Edit the file using a text editor (for example: Notepad++). There are two parts of the code that should be customised: one for real-time data reports and one for historical data reports.

## 1) Historical data

Edit the following text (line 4 of the file) (optional):

```
<historical gap="5" margin="20">
<customHeader logoLeft="logo-left.png" logoRight="logo-right.png" titleLine1="TITLE LINE"
titleLine2="Subtitle line 1" titleLine3="Subtitle line 2"/>
<customValues>
```

Editable values in bold (see example image):

- logo-left.png: name of the image file to place to the left of the header (1).
- logo-right.png: name of the image file to place to the right of the header (3).
- TITLE LINE: text on the first line at the centre of the header (2), in bold.
- Subtitle line 1: text on the second line at the centre of the header (2).
- Subtitle line 2: text on the third line at the centre of the header (2).

If all boxes are left empty, the report will be produced without a header.

#### 2) Real-time data (realTime)

Edit the following text (line 28 of the file) (optional):

```
<realTime gap="5" margin="20" orientation="portrait">
<customHeader logoLeft="logo-left.png" logoRight="logo-right.png" titleLine1="TITLE LINE"
titleLine2="Subtitle line 1" titleLine3="Subtitle line 2"/>
<customValues>
```

#### Editable values in bold (see example image):

- **logo-left.png**: name of the image file to place to the left of the header (1).
- logo-right.png: name of the image file to place to the right of the header (3).
- TITLE LINE: text on the first line at the centre of the header (2), in bold.
- Subtitle line 1: text on the second line at the centre of the header (2).
- Subtitle line 2: text on the third line at the centre of the header (2).

If all boxes are left empty, the report will be produced without a header.

# **Registration interval settings**

## Contents

In the following menu:

# $\odot$ Settings > Archive management > Summary

This screen summarizes all the settings on the TelevisGo relating to data storage.

🔯 Control	
Historical database	
Parameter	Current value
Recording interval	5 minutes
Filling percentage	12.1%
Left registration time	>2 years
Oldest data	22 May 2023 11:30:00
Temporary database	
Parameter	Current value
Asynchronous data aggregation interval	1 minute
Maximum number of records	Modbus Tcp (80.59.196.141:30502)
Oldest data	28 August 2023 22:00:12
🔯 Manage	
Parameter	Current value
Maximum capacity	7 GB
Circularity-dedicated section size	10.0% (717 MB)
Most recent archive renewal date	Never accomplished

The settings for the following values are listed:

#### Historical database

- · Recording interval
- Filling percentage
- Left registration time
- Oldest data

## **Temporary database**

- Asynchronous data aggregation interval
- Maximum number of records
- Oldest data

#### Manage

- Maximum capacity
- Circularity-dedicated section size
- Most recent archive renewal date

## Control

In the following menu:

## Settings > Archive management > Control

📄 Control		Q Deta	ails
Name	Value		00.05.00
Recording interval	00:05:00	Value	00:05:00
Filling percentage	12.1%	O Deta	4.
Left registration time	>2 years	Q Deta	alis
Oldest data (m	22/05/2023	Value	22/05/2023
Asynchronous data aggregation interval	00:01:00		Custom Date (Year/Month/Day)
		to	2023 ~ 01 ~ 01 ~
			Ouick Quick
			One day 🗸 🗸
		Estimated p	purged data (% on current data): 5KB (0,0%)
· · · · · · · · · · · · · · · · · · ·		🔍 Deta	ails
		Value	00:01:00

The recording interval set (between 1 minute and 2 hours inclusive) is the storage interval (sample) for the values of the selected resources.

On this screen, press the **Edit** icon to set:

- Recording interval: enter the value (hours:minutes:seconds) and press the Save icon. NOTE: This interval does not apply to Machine states, Alarms and Digital resources. In these cases, only changes in the variables themselves are recorded, and not in relation to the interval set.
- Oldest data: enter the desired date and press the Save icon. NOTE: if set, all data prior to the date entered will be deleted.
- Asynchronous data aggregation interval:enter the value and press the Save icon. NOTE: The allowed values are as follows: 00:00:01 (1 second), 00:00:15 (15 seconds), 00:00:30 (30 seconds), 00:01:00 (1 minute).

**NOTE**: access to this screen and editing the settings for controlling the data archive is reserved for system administrators and any authorized groups of users.

## Manage

~~~

In the following menu:

| Settings > A | rchive management $>$ I | Vanage |
|------------------------------------|-------------------------|-------------|
| 📄 Manage | |] |
| Name | Value | O Details |
| Maximum capacity | 7 GB | Details |
| Circularity-dedicated section size | 10.0% (717 MB) | Value 10.0% |
| Most recent archive renewal date | Never accomplished | |

On this screen, press the **Edit** icon to set:

<u>Circularity-dedicated section size</u>: enter the value and press the **Save** icon. **NOTES**:

- The adjustable value must fall between 5 % and 30 %. Values outside the range will generate an error.
- If "0.1" is entered, "10 %" will be saved; if "0.155" is entered, "15.5 %" will be saved; if a value with the "%" symbol is entered (for example, "15.5 %"), the value saved will be the same as the one entered ("15.5 %" in the example).
- access to this screen and editing the settings for managing the data archive is reserved for system administrators and any authorized groups of users, as it can affect system performance.

System general settings

A WARNING

UNINTENDED EQUIPMENT OPERATION

- Install TelevisGo, SerialAdapter and EthernetAdapter in an environment in which EMC disturbance is below the limits specified in standard EN61000-6-1 (residential, commercial and light industry environments).
- Configure the "LifeTest" function to make sure the TelevisGo is active. Non-receipt of the periodic email indicates a malfunction of the TelevisGo or the email sending service.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

System

This page is used to set the system language, the communication ports and the system life test notification sending times.

In the following menu:

Settings > General settings > System

The following screen will appear:

| | 5 🛃 Edit 🔚 Save 🚫 Cancel |
|--------------------------------------|----------------------------|
| 🔍 Languages 🚺 | |
| System language English | V |
| Ports 2 | |
| Web server - Communication port | [165535] |
| Data transfer - Communication port | 8080 [165535] |
| 🗟 Email life test 3 | |
| Email life test - Starting hour | 05:00:00 [0 seconds 1 day] |
| 🔁 Email life test - Interval (hours) | 6 [124] |
| Email life test - Recipient | Validate |
| | 4 |

The different parts of the page are:

- 1. Languages: set the language used in creating the alarm messages and communication with systems external to TelevisGo (TelevisTwin or third-party systems). The system language setting impacts information relating to periodical exporting (.csv and .pdf files).
- 2. Ports: used to set the following ports:
 - Web server: identifies the port to be used for the WEB connection (example 443).
 - Data transfer: identifies the port to be used for data downloads (example: 8080).
- 3. Email life test: manages information relating to the sending of emails:
 - Starting hour: indicates what time the test should be carried out (example 05:00:00).
 - Interval (hours): indicates the test execution interval expressed in hours (example 6).
 - **Recipient**: indicates recipient/s to whom the test should be sent. If there are several recipients, separate addresses with ";".
- 4. Validate...: once the email addresses have been entered, the LED will turn RED to show that they have not been validated. Click "Validate...". (NOTE: a mail server must have been configured in the section Alarm management/Actions). In the window that opens, enter the code received via email; the LED will turn GREEN. If one of the sending attempts fails, the
- 5. **Control bar**: see Buttons and Selectors.

LED will change color to YELLOW.

Services

In the following menu:

\odot Settings > General Settings > Services

The following screen will appear:

| | | 3 🕞 Edit 🔚 Save 🛇 Cancel |
|---|--|------------------------------|
| | EcoStruxure Web Services (EWS | i) for IMP |
| | Enabled
Port 4434 | [8165535] |
| | Language English 🗸 | |
| | TelevisTwin - Sending life test no | otifications |
| | Twin - Life test - Sending period | 01:00:00 [1 minute 30 days] |
| 2 | Twin - Life test - Delay on first send | 00:15:00 >= 0 seconds |
| 2 | Twin - Life test - Retry interval | 00:01:00 [0 seconds 30 days] |
| | Twin - Life test - Retry duration | 01:00:00 [0 seconds 30 days] |
| L | | |

The different parts of the page are:

- 1. EcoStruxure Web Services (EWS) for IMP: Manages the information of the EWS service:
 - Enabled: sets whether the EWS service is enabled or not
 - Port: Sets the connection port of the EWS service
 - Language: allows setting the language used in the data communication towards IMP.
- 2. Sending life test notifications:: manages sending information for the Twin Life test:
 - **Sending period**: indicates how often the life test should be carried out (example: 01:00:00).
 - **Delay on first send**: indicates how long to wait after start-up before sending a life report in hours (example: 00:15:00).
 - Retry interval: indicates the interval between 2 consecutive life report sending retries.
 - Retry duration: indicates the maximum interval within which life report sending attempts are made.
- 3. Control bar: see Buttons and Selectors.

The life test will be sent to TelevisTwin if <u>at least one</u> "TelevisTwin" type action is configured on the system (see "Alarm management/Actions").

Alarms

In the following menu:

\odot Settings > General Settings > Alarms

The following screen will appear:

| | 7 🗾 Edit 🛛 | Save | S Cancel |
|--|---|------|---|
| General General | | 1 | |
| Alarms - Retry interval 00:01:00 (0 seconds Alarms - Retry duration 01:00:00 (0 seconds Alarms - Emergency recipient Sms: +39000000 C SMS SMS alphabet Standard Modem signal strength lower alarm threshold (%) 40 | 20 days] | | |
| 4 a Email server configuration | | 6 | Fest Utility |
| e-mail - Server - Address
e-mail - Server - Port
e-mail - Server - Sender address
e-mail - Server - Authentication required
e-mail - Account - Name
e-mail - Account - Password
Accept invalid certificate when SSL protocol is used by the email server
Email server timeout
SSL protocol is used by the email server | smtp.gmail.com 465 (1 - 6533) change@email.address ************************************ | | Mossage TelevisGo test e-mail Address change@email.address e-mail |

The different parts of the page are:

- 1. General: used to set up the sending of alarms (see "Alarm management"):
 - Retry interval: set the interval between 2 consecutive alarm sending retries.
 - Retry duration: set the maximum alarm sending retry interval.
 - Emergency recipient: set the telephone number to be called (for example: +39000000) and/or the email address (example: change@email.address) to set the telephone number to which an emergency message will be sent should the TelevisGo database become corrupted and the recipients set by the user are no longer available. If several recipients are entered, they should be separated with ";".

NOTICE

INOPERABLE DEVICE

- Set the emergency recipient to receive notifications relating to any TelevisGo database malfunctions.
- Use a SIM card with an unlimited data plan for sending SMS messages and/or emails.

Failure to follow these instructions can result in equipment damage.

Validate...: once the telephone number has been entered, the LED will turn RED to show that it has not been validated. Click "Validate...". In the window that opens, enter the code received via SMS; the LED will turn GREEN.

If one of the sending attempts fails, the LED will change color to YELLOW.

- 3. SMS: used to set the set up the sending of SMS messages:
 - SMS alphabet: sets the type of alphabet to be used when sending SMS messages: Standard 7 bit (default) or UCS-2 (Universal Character Set) or Russian 7 bit.
 - Modem signal strength lower alarm threshold (%): sets the minimum modem signal threshold (as a percentage) which must be reached before a "Modem signal insufficient" alarm is activated.
- 4. Email server configuration: used to set the email server (e-mail Server):
 - Address: set the email server address.
 - Port: set the email server connection port.
 - Sender address: set the sender's email address.
 - Authentication required: tell the system whether authentication is required.

- Name: sets the user name (if authentication is required).
- Password: sets the user password (if authentication is required).
- Accept invalid certificate when SSL protocol is used by the email server: used to allow invalid certificates when the SSL protocol is active.
- Email server timeout: sets the maximum interval for attempting to communicate with the server before generating an error (timeout).
- SSL protocol is used by the email server: sets whether the email server uses the SSL protocol.
- 5. **Test Utility**: used to instantly check that the settings entered are correct and operational by sending an SMS message.
- 6. Test Utility: used to instantly check that the settings entered are correct and operational by sending an email.
- 7. Control bar: see Buttons and Selectors.

Media

The TelevisGo automatically detects the connectivity devices connected to it (MEDIA e.g. a LAN network or a GSM modem) and uses them to send alarm messages. In the following menu:

Settings > General Settings > Media

The following screen will appear:

| 👌 Re | boot the system in or | der to make the new settings active. | |
|-------|-----------------------|---|-----------------------|
| Q De | tected Media | | |
| Туре | | Details | Detecte |
| | Ethernet | Intel(R) I211 Gigabit Network Connection #2 | ✓ |
| | Telephone | | • |
| 4 | PSTN Dial Up | | • |
| | Mobile phone | | 0 |
| GSM 1 | GSM Dial UP | | |
| GPRS | GPRS Dial Up | | |
| | SMS | | |

- The Detected Media box lists all elements located and the type of connection.
- · The Details column shows the corresponding description.
- The **Detected** column indicates whether the specified media has been detected.

On clicking Scan Peripherals, the system starts scanning for media devices connected to TelevisGo.

TelevisGo has a backup mechanism for alarm messages sent. From this page, you can decide in which order the system should sent alerts in.

| 厚 e-mail - Priority | | | Ethernet
GSM Dial Up |
|---|--------------|-----|---|
| e-mail - Primary Medium | Ethernet | | PSTN Dial Up
GPRS Dial Up |
| | | -fm | None
Ethernet |
| e-mail - Secondary Medium | GSM Dial Up | Ť | GSM Dial Up PSTN Dial Up GPRS Dial Up |
| | | | |
| 🍃 Phonecall - Priority | | | Mobile phone |
| Phonecall - Priority | | | Mobile phone
Telephone |
| Phonecall - Priority Phonecall - Primary Medium | Mobile phone | ž | |

For example, in the "e-mail - Priority" box, the primary medium to send alarm alerts via email to can be selected (Ethernet in the example provided). If there is no Ethernet connection, TelevisGo will try to send the email using the secondary medium (a GSM modem in this case).

The order of priority for phonecall alarm messages is established in the same way.

Note: entering a secondary "Medium" is not compulsory.

Note: the drop-down menus list all media found for the type of notification, even if the specific one is not currently enabled.

PSTN, GSM and GPRS connections can also be configured from this page. Each of the three types of connection can be activated from the corresponding drop-down menu.

For PSTN and GSM connections, the following must be entered:

- Number of telephone provider with international dialing prefix (for example, +39 for Italy)
- Dial-up connection user
- Dial-up connection user password.

| PSTN Dial Up Details | 🖐 Test utility |
|--|------------------------------|
| Enable PSTN Dial Up | |
| 2 PSTN Provider number | Test connection |
| PSTN Username | |
| STN Password | |
| | |
| | |
| GSM Dial Up Details | 🖳 Test utility |
| GSM Dial Up Details | Test utility |
| ing the internet in the internet in the internet internet in the internet internet internet in the internet int | Test utility Test connection |
| Enable GSM Dial Up | |
| Enable GSM Dial Up | |

For GPRS connections, the service Access Point Name (APN) is required (for example, internet.mnc012.mcc345.gprs).

| GPRS Dial Up Details | | 🕞 Test utility | |
|----------------------|---------------------|-----------------|-----------------|
| | Enable GPRS Dial Up | Test connection | |
| R | GPRS APN | | iest connection |

Others

In the following menu:

😳 Settings > General Settings > Others

The following screen will appear:

| | | 2 🖟 Edit | Save S Cancel |
|------------|--|--------------|--|
| | Sending life test notification | | |
| V 2 | Include parameters into the network naming snapshot file | \checkmark | |
| 2 | Show alarms resources in historical data | \checkmark | |
| 2 | Execution time of the data export tasks | 00:00:00 | [0 seconds 23 hours 59 minutes and 59 seconds] |
| | Start acquisition | 05:00:00 | [1 minute 1 day] |
| | | | |

The different parts of the page are:

- 1. Sending life test notification: manages the life test sending information:
 - Include parameters into the network naming snapshot file
 - Show alarms resources in historical data
 - Execution time of the data export tasks
 - Start acquisition: indicates the period of inactivity after which the acquisitions are restarted automatically.
- 2. Control bar: see Buttons and Selectors.

Computer

Contents

This section includes the following topics:

| ntroduction1 | 47 |
|-----------------------------|----|
| Device settings | 48 |
| Jpdating the TelevisGo1 | 50 |
| Jpdating the system1 | 51 |
| Jpdating algorithm drivers1 | 52 |
| Jpdating device drivers1 | 53 |
| Reboot1 | 54 |
| icense updating1 | 54 |
| System backup/restore | 55 |
| Activity logging1 | 56 |

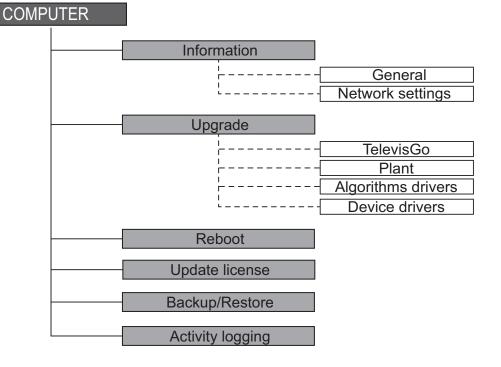
Introduction

Description

This section can be used to:

- manage network settings
- update the application, functions and languages
- update parameter maps, layout pages and various settings
- update algorithm and device drivers
- restart the application TelevisGo
- · update the license
- backup and restore the system
- view the reports (.TXT) for activities carried out

Menu structure



Computer

Device settings

Setting the system name

In the following menu:

□ Computer > Information > General

The following screen will appear:

| | 2 🍃 Edit | Save | Cancel |
|------------|-----------|------|--------|
| 🧕 Genera | ıl | | |
| Plant name | TelevisGo | | 0 |
| | | | |

The different parts of the page are:

- 1. Plant name: used to set the system name
- 2. Control bar: see Buttons and Selectors.

Setting up network connections

In the following menu:



The following screen will appear:

| | | Save 🚫 Cancel |
|---|----------------------------|---------------|
| Q | Proxy Settings | |
| 2 | Domain resolution | Native DNS v |
| 2 | Ignore for local addresses | |
| 2 | Enabled | |
| 2 | Protocol version | SOCKS 5 V |
| 2 | Server address | |
| 2 | Server Port | 1080 |
| 2 | User | |
| 2 | Password | |

Contact the network administrator for the network and Proxy data.

The different parts of the page are:

- 1. Domain resolution: Native DNS or Proxy.
- 2. **Ignore for local addresses**: when selected, Televis**Go** will not use the proxy server to resolve addresses within its own sub-network.
- 3. Enabled: if selected, the SOCKS server will require authentication.
- 4. Protocol version: SOCKS 4, SOCKS 4a, SOCKS 5 or HTTP Proxy.
- 5. Server address: IP address of SOCKS server.
- 6. Server Port: SOCKS server access port.

- 7. User: user name for SOCKS server authentication.
- 8. **Password**: password for SOCKS server authentication.
- 9. Control bar: see Buttons and Selectors.

NOTE: having set the proxy parameters, reboot the system.

Updating the TelevisGo

The system can be updated by loading the relative update files.

Download the TelevisGo update packages from the Eliwell website: www.eliwell.com.

To update the system, go through the following menus:

⊇⊑ Computer > Update > TelevisGo

The following screen will appear:

| | 🧕 Update | | | |
|---|-------------|------------------------------|---------------------------|--------|
| | Applicatio | n | Select a file (.exe) | |
| | Tools | | Select a file (.exe) | |
| _ | Languages | | | |
| | _ Languages | | | |
| | Languages | | Select a file (.txt) | |
| | | Dimensions | Select a file (.txt) Date | |
| 1 | Languages | Dimensions | | Remove |
| 1 | Languages | Dimensions
[281438 Bytes] | Date | Remove |

In this, the following updates can be made:

- Application: update the TelevisGo application.
- Functions: update/upload the software applications "Offline Configurator" and "Layout Designer".
- Languages: update/upload the TelevisGo system glossaries.

The application update package can be downloaded from the website www.eliwell.com and contains updates to device drivers

To update the dictionaries, download the relevant file from the website www.eliwell.com.

NOTE: To avoid overwriting local changes and notification message customization files, the dictionaries are not included in application updates.

NOTE: if you cannot find the driver for your device, contact Eliwell Technical Support (Technical helpline: **+39 0437 986 300** - email: Techsupp@se.com).

Updating the system

The system can be updated by loading the relative update files.

Download the Televis**Go** update packages from the Eliwell website: www.eliwell.com.

To upgrade the system, go through the following menus:

Computer > Update > System

The following screen will appear:

| <u> </u> | Parameters map | | | | | |
|-------------------------------------|----------------|---------------|------------------------|--------|--|--|
| Parameters map Select a file (.dat) | | | | | | |
| File | name | Size | Date | | | |
| 1 Msrl | RTX 600-V.dat | [260 Bytes] | [2/16/2016 6:16:47 PM] | Remove | | |
| Q L | ayout pages | | | | | |
| | Layout pages | Select a file | 9 (.xml) | | | |
| File | name | Size | Date | | | |
| Cab | ine.xml | 3,140 Bytes | 10/7/2016 3:46:40 PM | Remove | | |
| 2 Tacit | azione.xml | 935 Bytes | 3/31/2016 6:16:47 PM | Remove | | |
| Q S | ettings | | | | | |
| | | | | | | |
| _ | General settir | ngs Selec | t a file (.txt) | | | |
| –
– 31 | General settir | | t a file (.txt) | | | |
| 3 1 | | tions Selec | | | | |
| File | Scheduled ac | tions Selec | tafile (.xml) | | | |

In this, the following updates can be made:

- Parameters map: used to upload a map to for scheduled actions
- Layout pages: used to upload one or more layout pages (see "Layout")
- General settings: the procedure uses the file "Forced\_setting.txt".

Updating algorithm drivers

The system can be updated by loading the relative update files.

Download the TelevisGo update packages from the Eliwell website: www.eliwell.com.

To update the algorithms, go through the following menus:

Computer > Update > Algorithms drivers

The following screen will appear:

| Algorithms drivers | | | |
|---|------------------|----------------------------------|------------------|
| New Select a file (.zip) | | | |
| 2 Drivers update Select a file (.zip) | | | |
| File name | Protocol | In use | |
| | | | |
| 1 TGA30K1025_FloatingSuction.bin | Modbus | \checkmark | Remove |
| 1 TGA30K1025_FloatingSuction.bin 2 TGA30K1027_CentralizedDewPoint.bin | Modbus
Modbus | ✓ ✓ | Remove
Remove |

In this, the following updates can be made:

Algorithms drivers: updates/uploads the algorithms implemented with the FREE Studio Plus programming environment.

To load a new algorithm (row 1) :

- 1. click Select a file
- 2. select the algorithm file (format TGA30K1025\_FloatingSuction.bin)
- 3. click Run to load it.

The software will automatically open the Algorithms window

To update an algorithm (row 2):

- 1. click Select a file
- 2. select the algorithm file
- 3. click Drivers update.

The software will automatically open the Algorithms window

NOTE: if you are trying to update the algorithm using the **Run** function, the following message will appear on the screen: "**The algorithm is already present**".

Updating device drivers

The system can be updated by loading the relative update files.

Download the Televis**Go** update packages from the Eliwell website: www.eliwell.com. To update the device drivers, go through the following menus:

□ Computer > Update > Device drivers

The following screen will appear:

| -1 | Select a file (.bin) | | | | | | |
|----|------------------------------------|-------------------------|----------|--------------|--------------|--------|---|
| | Filter Model | | | | | | |
| ID | Model | File name | Protocol | In use | Available | | |
| 1 | IEM3255
IEM3155
IEM3355 | IEM3X55_9600E.bin | Modbus | ~ | | Remove | |
| 2 | EWDR 985 LX
EWDR 983 LX | TCDF0202.bin | Micronet | ~ | \checkmark | Remove | |
| 3 | EWCM 9000 PRO/CO2T | TCDF0613.bin | Modbus | \checkmark | \checkmark | Remove | |
| 4 | RTX 600/V-LowSH
RTD 600/V-LowSH | TCDF0639.bin | Modbus | ~ | <u>~</u> | Remove | 1 |
| 5 | Lovato DMK22 | LovatoDMK22.bin | Modbus | \checkmark | \checkmark | Remove | |
| 6 | LKD IR - Leak Detector | TCDF_IRLeakDetector.bin | Modbus | | | Remove | |
| 7 | LKD SC - Leak Detector | TCDF SCLeakDetector.bin | Modbus | | | Remove | |

In this, the following updates can be made:

• Device drivers: used to upload/update the device driver.

Updating a driver overwrites any driver that is already present.

Make a backup copy of the driver before carrying the update (see "System backup/restore").

The **Remove** button removes the relevant configuration file/driver.

• (1) list of all drivers present on the TelevisGo.

NOTE: if you cannot find the driver for your device, contact Eliwell Technical Support.

Reboot

Having updated the Application or the License, you must reboot the Televis**Go** software to implement the updates. To do so, go to:

Computer > Reboot

then press Reboot.

| " | Reboot |
|----------|--------|
| | Reboot |

This procedure involves the disconnection of Televis**Go**. If the login page does not appear automatically after a few minutes, close and reopen the browser.

License updating

The license can be updated (for example, to increase the number of connectable devices or activate additional functions).

In the following menu:

Computer > Update license

Enter the "Current code" on the screen, then the "New code" (1) supplied by Eliwell, and press "Start update". If the entered code is wrong an error message will be created.

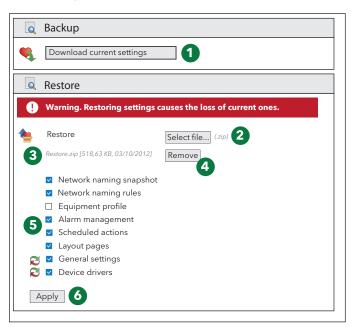
| 🛛 🖉 Update | license |
|--------------|-------------------------------|
| Current code | 2MBQB6ATASMJQQMYAB35BPM4YRRJQ |
| New code | Start update |

System backup/restore

The system configuration can be backed up. In the following menu:

Computer > Backup/Restore

The following screen will appear:



Backup

Click **Click Download current settings** (1); a .zip file is created containing the "Equipment profile" and the "Scheduled actions".

The user must save the file created.

Run a backup as soon as the device network customization and scanning, alarm configuration and scheduled actions setting processes have been completed.

Restore

Restore is used to load a set of previously archived settings to the TelevisGo.

(2) Select file...: to open a window and select the backup file to be restored.

(3) Once loaded, the name, size and date of the backup file will be visible (but the restore will not yet have been performed).

(4) Remove: used to cancel the previously uploaded file.

(5) Some check boxes above the Apply (7) button are used to select which settings to restore.

(6) Apply: the TelevisGo will be restored according to the contents of the uploaded file (3).

The restore function is used to re-apply the backup functions on the same system or replicate the information on different systems.

The restore procedure overwrites the system settings and cannot be canceled (the user is responsible for making a safety backup before carrying out the restore procedure).

If the restore procedure involves the network name, make sure that the network has been scanned.



Activity logging

TelevisGo records the main operations carried out by users:

Computer > Activity logging

The page shows one or more text files which can be consulted by clicking **Open**.

| Activity logging | |
|---|----------|
| [TraceUserActivity_0.txt] - [102182 Bytes] - [7/31/2013 9:28:51 | AM] Open |

The text files used to log activities belong to a group of files that are managed in a circular mode (maximum of 10 files), meaning the oldest files are overwritten. The language used to log data in these files is the system language. Moreover, to facilitate the consultation in case of need, the user activities are tracked and also recorded in the application tracking file using the English language.

Below is a list of the activities that are logged in the files:

- Login AutoLogin Logout
- Data acquisition Start / Stop
- Scheduled actions Start / Stop
- Execution of Commands
- Execution of Commands from Parameters page
- Writing of parameters
- RVD access
- Device(s) added to the network configuration
- Device(s) removed from the network configuration
- Edit device configuration
- Device(s) in maintenance
- Device maintenance end
- Editing/creation/removal of Alarm Actions
- Editing/creation/removal of Intervals
- · Editing/creation/removal of Scheduled Activities
- Editing and saving of System Names
- Updating: updating of files in the pages
 - Computer Updating
 - Backup / Restore
 - Naming
 - Device profile
 - Drivers
- Reboot
- Updating: file removal
 - Application
 - File name rules
 - Updating
 - Dictionaries
 - Drivers
 - Scheduler
 - Layouts
 - Parameter map file
- · License updating
- Backup settings
- Restore settings
- Editing and saving of:
 - General settings > System

- General settings > TelevisTwin
- General settings > Alarms
- General settings > Media
- Editing and saving
 - Archive management > Control
- Editing and saving
 - Archive management > Manage
- Editing and saving
 - Computer > Information > Network settings.

Configuring HTTPS protocol

Contents

This section includes the following topics:

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| Installing a new certificate | 161 |

Certificates

The following image is an example of the structure of the "**Eliwell CA**" certificate installed on the Televis**Go**. It is a selfcertification and by default is installed in the "**Trusted root Certification Authorities**" folder on the Televis**Go**.

| Certificate | × |
|---|------------------|
| General Details Certification Path | |
| | |
| Certification path———— | |
| Eliwell CA | |
| | View Certificate |
| Certificate status: | |
| This certificate is OK. | |
| Learn more about <u>certification paths</u> | |
| | ОК |

The Televis**Go** only works in **HTTPS** mode by connecting to the URL: **HTTPS://[Machine name]**. Operation in **HTTPS** can take place in 2 ways:

- By installing the "Eliwell CA" certificate on each machine that needs to connect to the TelevisGo. NOTE: the certificate is self-signed by Eliwell, not recognized by the browsers, and does not constitute a guarantee of security for the user (see "Installing the certificate on other PCs").
- By purchasing and installing a certificate recognized by browsers and issued by an Authorized Certification Authority (Digicert, Verisign, etc.) on the TelevisGo (see "Installing a new certificate").

Installing the certificate on other PCs

| Certificate |
|--|
| General Details Certification Path |
| |
| Certificate Information |
| This certificate is intended for the following purpose (s): |
| All issuance policiesAll application policies |
| |
| |
| Issued to: Eliwell CA |
| Issued by: Eliwell CA |
| Valid from 4/1/2020 to 4/1/2070 |
| |
| Install Certificate Issuer Statement |
| Learn more about <u>certification paths</u> |
| ОК |

At startup, the file **CertificateGo.cer** corresponding to the certificate will be generated in the Televis**Go** folder (see "Certificates").

Install the certificate "Eliwell CA", self-signed by Eliwell and not recognized by the browsers, on each machine that needs to establish a secure remote connection with the TelevisGo.

To install it correctly, proceed as follows:

- 1. Copy the file to the machine on which you want to install the Certificate
- 2. Double-click on the certificate
- 3. In the window that opens, click "Install Certificate..." to launch the installation wizard
- 4. Click "Next >"
- 5. Select "Place all certificates in the following store"
- 6. Click "Browse..." and search for the file "Trusted Root Certification Authorities"
- 7. Click "Next >"
- 8. Click "Finish".

The certificate is now correctly installed on the machine and will allow remote communication with the Televis**Go** via **HTTPS**.

Installing a new certificate

If the client decides to protect themselves further by requesting the issue of a Certificate signed by a recognized authority, to install it correctly on the Televis**Go** proceed as follows:

- 1. Install the certificate issued by the authority on the TelevisGo, in the "Personal" folder.
- 2. Go to "Start" and then "Run"
- 3. Enter "inetmgr" in the text box and press enter
- 4. At this point the **IIS** interface will open
- 5. Select the following sequence from the menu on the left: TelevisGo -> Sites -> ReverseProxy
- 6. Click "**Bindings...**" in the menu on the right
- 7. Now select the binding "HTTPS" and click "Edit"
- 8. Finally, in the SSL certificate field, open the drop-down menu and select the new certificate you have just installed, then click "**OK**".

The certificate is now correctly installed and assigned to the TelevisGo.

Administrative tools

Contents

This section includes the following topics:

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Restoring the disk image

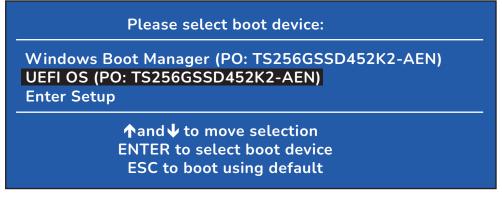
This function allows you to reinstall the software and the operating system in the event that:

- TelevisGo operation has been compromised (virus or loss of performance)
- you want to restore the factory settings of the TelevisGo

This procedure will delete the entire contents of the hard disk: software, data and TelevisGo settings.

To proceed, you need to:

- 1. In the system file "C:\", enter an empty file with the name "enablerestore". Note: the file will be deleted at each reboot
- 2. Reboot the TelevisGo
- 3. During the reboot, press F7. A window similar to this one will open:



- 4. Use the Up/Down arrows to select "UEFI OS (PO: TS256GSSD452K2-AEN)" and click ENTER
- 5. In the next window, enter "eliwell" as the username and click ENTER
- 6. Then enter "eliwell" as the password and click ENTER.
 - The window does not show the password characters entered.

Note: the process takes 10/15 minutes.

Once the system reboot is complete, enter the menu:

| Computer > Update license | | |
|---------------------------|-------------------------------|---|
| Q Update license | | |
| Current code | 2MBQB6ATASMJQQMYAB35BPM4YRRJQ | - |
| New code | | 2 |
| | Start update 3 | |
| | | |

- a. Send an email to Eliwell Technical Support (techsuppeliwell@se.com) with subject "TELEVISGO LICENSE". Indicate the product code and ID code (1) shown in the picture to calculate the new license code and the type of license to activate (LE or standard and the size).
- b. Eliwell Technical Support will email you the new license code to enter in the gray box (2).
- c. Click "Start update" (3).

NOTE: the factory settings may contain outdated versions of the software and/or operating system; check whether they need updating.

Downloading files

A .zip file containing information on the status of the system and its configuration can be downloaded in order to diagnose any problems.

To do so simply open a browser and enter:

HTTPS://<TelevisGo address>/debug.rix

The Televis Go address is the one used for the normal web interface use (e.g.: 192.168.1.50).

Remote data access protocol

Contents

This section includes the following topics:

Data protocol

Televis**Go** allows third-party clients to extract data saved in their own files and run remote procedures on the system using the TCP/IP communication protocol.

For further information, contact Eliwell Technical Support.

NOTE: information is only available in English.

FAQs

Contents

This section includes the following topics:

FAQs

FAQs

- Function busy message: to avoid blocking TelevisGo functions, always use the logout button to exit the application. If you don't do this, the functions will remain busy until the work session times out (20 minutes), preventing them from being used by other users.
- Device description: the screens used to select devices/resources for accessing various system functions (parameters, RVD, etc.) offer the option of applying filters, which act on the "Description" of the device/resource). To simplify selection by applying filters, we recommend assigning easily recognizable descriptions.

Device naming as follows:

- Frozen food cabinet 1
- Frozen food cabinet 2

- Frozen food cabinet n
- Vegetable cabinet 1
- Vegetable cabinet 2

•

- Vegetable cabinet m
- Positive temperature controller
- Negative temperature controller

updates page and update dictionaries (see "Updates").

makes it easy to identify all devices within a group (for example: frozen food cabinets) simply by entering the string "frozen" in the filter; controllers can be identified using the string "Controller". The same concept can be extended to the naming of individual device resources/alarms.

Alarm detail: why is there an action when an alarm occurs, and not the action associated with the alarm reset?

This happens when a category or action connected to the same alarm management category is removed. The system is no longer able to perform the activity associated with resetting that alarm.

Why does the system carry out an action associated with an alarm category, even if the validity period has elapsed?

This happens if an alarm instance starts within a validity period. Management also continues through alarm reset periods, even if this occurs outside the validity period.

Why are some strings missing sometimes when I update drivers? This happens because updating drivers does not update dictionaries as well. To update dictionaries, go to the

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