# SoftGate

## Data Acquisition Manager
Microsoft® COM/OLE Automation® component

# User Manual
English

Version 1.0.0 - 22/01/2004

# Index.

# 1. Specification.

**Direct commands:** a number of functions related to specific instrument capabilities. They can be sent to the selected device anytime. Available commands are:

- **Keyboard**: locks or unlocks device keyboard usage.
- **Power**: enables or disables device functionalities (display/relay…).
- **Light**: switches on or off an output dedicated to light control (an output of the device needs to be configured for this specific functionality).
- **Defrost**: run defrost function (for instruments with this capability and subject to restrictions controlled by the device).
- **DateTime**: set instrument date and or time equal to computer date and time.

**Network adapter:** communication interface between an instrument network and a personal computer; this is usually connected to a serial port of the personal computer and acts the following tasks:

- Manages conversion between RS-232 and RS-485 (and vice-versa) physical protocol when the personal computer is communicating with the devices.
- Manages loss of communication condition between personal computer and itself.
- Manages software capabilities permissions information (acts as a software dongle).

There are two logical categories of network adapters:

- Primary: contains information on software capabilities (maximum number of manageable networks, maximum number of manageable devices, etc.); acts also as a network interface (RS-232/RS-485)
- Auxiliary or secondary: acts as a simple network interface (RS-232/RS-485) extending the capabilities of a primary network adapter.

It is necessary one primary network adapter connected to a PC to run this software component.
A network adapter can also manage some physical resources acting like a device.

**Network:** logical entity composed by one network adapter and a number of connected devices; there is a bi-univocal correspondence between network and communication port used by the personal computer. For each network a maximum of 224 devices may be addressed.

**Resource:** identify one of the entity managed by a device; resources are defined as:

- Analog inputs
- Digital inputs
- Analog outputs
- Digital outputs
- State
- Alarms

For each analog input there are some related information:

- Measurement unit (see appendix A for the list of all the available measurement units).
- Decimal point position (this is a multiplier that must be applied to the physical reading from the device to obtain a standard representation in respect to the measurement unit [integer. decimal]).

**Device:** physical device connected to an RS-485 network through a network adapter. For each device are defined the following items:

- Identification:
  - Network Address.
  - Device Model.
  - Device Version
- Managed resources:
  - Number of Analog Inputs
  - Number of Digital Inputs
  - Number of Analog Outputs
  - Number of Digital Outputs
  - List of managed State (see appendix C)
  - List of managed Alarms (see appendix B)

**Parameter group:** group of parameters as a subset of a parameter table model; each group represent a view; one parameter can be present in one or more groups.

**Parameter table model:** complete set of parameters describing the configuration af a device.

**Parameter:** single item describing a specific characteristic of a device; a parameter is defined by the following information:

- **id**: unique identifier of the parameter within the parameter table model.
- **tag**: label that shortly identifies the parameter (this is usually displayed on the device menu).
- **type**: parameter format type (byte, word, …).
- **min_type**: defines how min_val must be interpreted:
  - **none** (no minimum value).
  - **Absolute** (the minimum value is an absolute value).
  - **Parameter** (the minimum value is a reference to a parameter containing the value).
- **min_val**: minimum value for the parameter (according to min_type).
- **max_type** : defines how max_val must be interpreted:
  - **None** (no maximum value).
  - **Absolute** (the maximum value is an absolute value).
  - **Parameter** (the maximum value is a reference to a parameter containing the value).
- **max_val** : maximum value for the parameter (according to max_type).
- **default_val** : default value for the parameter.
- **um** : measurement unit for the parameter.
- **dec_point_pos** : decimal point position relative to the measurement unit type (+1, +2, … indicates that the value must be divided for 10, 100, …; 0 means that the value is correctly represented as per the measurement unit; -1, -2, … means that the value must be multiplied by 10, 100, …).

# 2. General description.

DAM is a software component developed under Microsoft® COM/OLE Automation® specification. It's purpose is to simplify interfacing communication between devices with Invensys Televis protocol and software programs developed for Windows 95/98/Me/Nt4/2000/Xp, capable of working as an OLE Automation Client.
Main functionalities of the component are:

- Simultaneous connection to a number of devices limited only by the number of communication ports physically present on the hosting personal computer.
- Automated recognition of device networks connected to the personal computer.
- Automated recognition of devices present for each network.
- Automated recognition of all the resources managed by each device present for each network.
- Automated data acquisition for groups of resources related to many devices with events for data reading completion.
- Synchronous data reading of resources from single devices.
- Direct command for device specific functionalities (defrost, light, auxiliary, etc…).
- Read / Write (with or without validation) device parameters.
- Gives parameter properties for complete parameter map tables (device specific model by model).

To correctly run DAM there is the need for minimum one primary network adapter that assigns to the system the maximum allowed capabilities. If no primary network adapter is found, DAM runs in a DEMO mode with all the functionalities active for 120 minutes; after that time all communications to and from the network are locked.

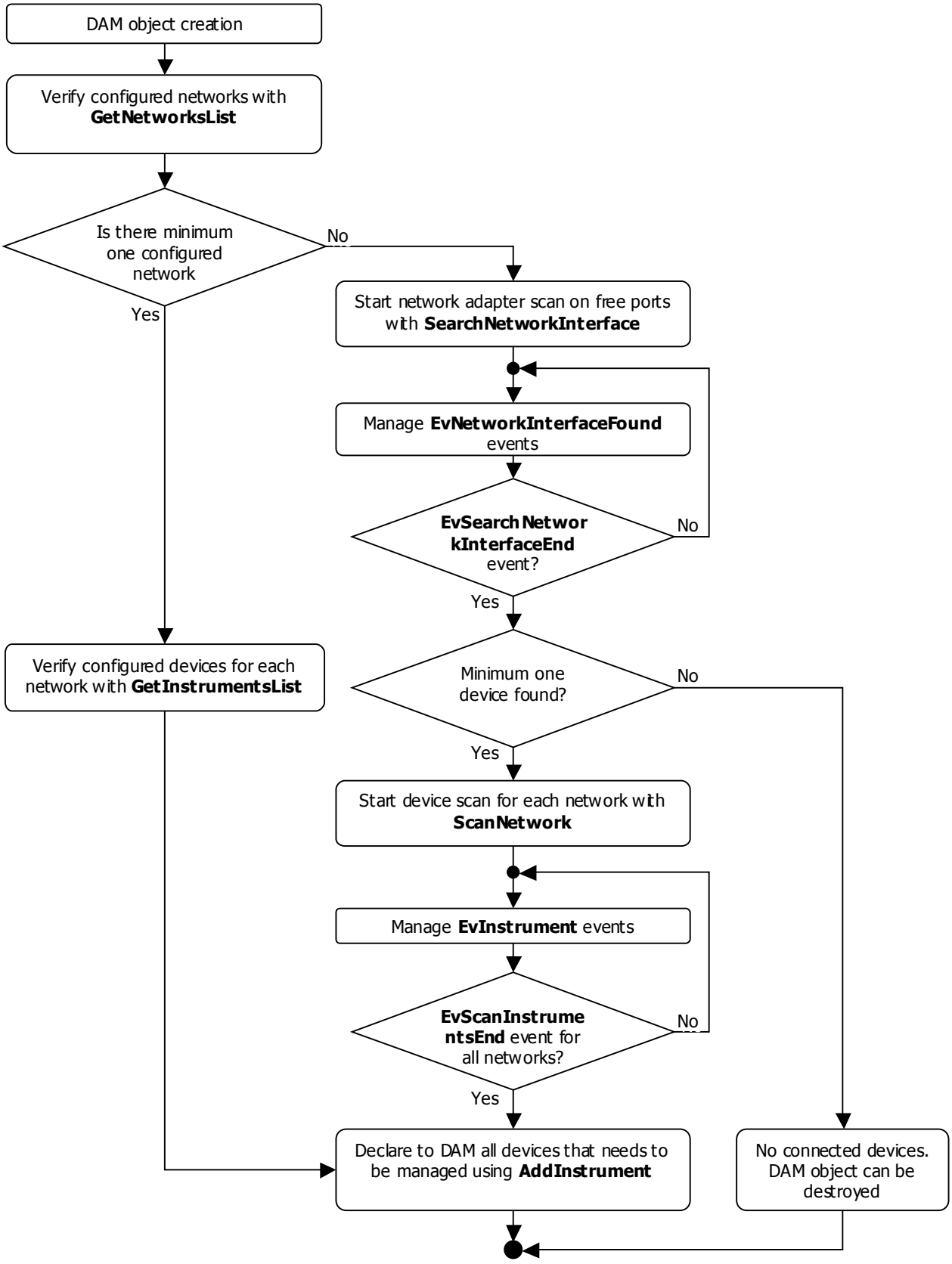
DAM is a SINGLETON component; only one instance of this component may run on a single machine. All the software programs needing the DAM component services will refer to an unique instance. This menas that DAM will be instantiated the first time is used by an application and can be destroyed only when all the applications referring to the component are disconnected from the component.

This solution is necessary to offer an unique interface to the device networks for an optimal and sure management of concurrent activities.

For a correct usage of the DAM component it is necessary to follow a sequence of preliminary tasks which objective is to determine the networks of devices to be managed. Read the following chapter for an explanation of this sequence.

# 3. DAM component start-up sequence.

To access the functionalities of the component it is necessary to perform the following sequence of tasks to determine the managed networks and devices structure:



At this point DAM is configured to manage communication with the desired device networks.
It is now possible to use methods for:

- accessing information about resource structure for each device (using **GetIoCOnfiguration**);
- send direct commands (using **NetworkCommand**);
- read resource value (using **GetResourcesValueSync** or **GetResourcesValue**).

Anytime it is possible to access (read / write) device parameters with the following sequence of operations:

- Gather information about the target device model with **GetModelInfo**.
- Gather information about available parameters for the selected device model with **GetParametersInfo**.
- Access parameters with **ReadSingleParameter** and **WriteSingleParameter** methods

The first two methods are available also without a device physically connected to the network simply referring to a data structure describing the target device (this is useful to manage parameter map tables off-line).

Depending on the model of the primary network adapter some functionalities can be limited or not available (e.g. maximum number of devices, read and/or write parameters). Se the information for **UDTProtectionInfo** structure for details on permissions.
Note: the primary network adapter can have a pluggable license card that enables or disables those permissions; refer to the network adapter and license card documentation for details on this functionality.

Depending on permissions given by the primary network adapter it is also possible to enable automated data acquisitions for a group of resources of one or more devices. In this case operate as follows:

- define all the resources that will be included in the automated acquisition (using **AcquisitionConfig**).
- enable automated acquisition mode (using **StartAcquisition**).

DAM sorts all the resources grouping them, on the basis of acquisition interval, then starts with the acquisition process.
The component polls the network to acquire data from each device; when all the data for each group is acquired and cached in RAM, data reading are available for direct reading (using **GetResourcesValue)**.
Depending on permissions given by the primary network adapter DAM generate an event (**EvAcquiredResources** event) to inform the application that the values for a certain group are updated carrying out also last reading for each resource.
With the **StopAcquisition** method automated reading are stopped.
When DAM is in automated reading mode, all other methods are still available. For example it is possible to send a direct command to one or more devices; DAM manages automatically execution priorities for different kind of requests.
Some events generated by DAM signals abnormal situations:

- When one of the configured network adapters is not anymore accessible (not responding) an **EvLinkLost** event is generated for the corresponding network. All the activities configured for that network are destroyed; the only one allowed operation through DAM is the method **RemoveInterface** with which all the resources related to that network are released to the system.
- When a direct command is not supported by the device or there is a wrong response from the device to that command, an **EvNetworkCommandFailure** event is generated.

To stop definitely DAM activity, three methods are allowed:

- **ResetInstrumentsList,** clears the complete list of configured instruments for a selected network.
- **RemoveInterface**, clears all the data and the handles for a network.
- **Stop** clears all the network currently managed.

Destroying the DAM object (and if no other client programs are linked to the component) all the configured activities are locked, all the resource are freed and released to the system.

# 4. Enumerations.

## DAM_RETURN_CODE

**Use**

Return codes provided by public methods.

| Literal | Value | Description |
|---|---|---|
| **DAM_RETURN_CODE_OK** | 0 | Requested operation correctly completed. |
| **DAM_RETURN_CODE_ERROR** | 1 | Requested operation not completed. |
| **DAM_RETURN_CODE_MODEL_NOT_FOUND** | 3 | No parameter table model is available for the specified device model. |
| **DAM_RETURN_CODE_PARAMETER_NOT_FOUND** | 4 | Requested parameter is not available for the specified device model. |
| **DAM_RETURN_READ_ERROR** | 5 | Error writing a parameter to a device. |
| **DAM_RETURN_WRITE_ERROR** | 6 | Error reading a parameter from a device. |

## DAM_NETWORK_COMMAND

**Use**

Direct command codes.

| Literal | Value | Description |
|---|---|---|
| **DAM_NETWORK_COMMAND_KEYBOARD** | 0 | Lock / Unlock local keyboard for the device |
| **DAM_NETWORK_COMMAND_POWER** | 1 | Switch on / off the device |
| **DAM_NETWORK_COMMAND_LIGHT** | 2 | Switch on / off light output |
| **DAM_NETWORK_COMMAND_DEFROST** | 3 | Start defrost |
| **DAM_NETWORK_COMMAND_DATETIME** | 4 | Set date and time |

## DAM_RESOURCE_TYPE

**Use**

Resource types for the devices.

| Literal | Value | Description |
|---|---|---|
| **DAM_RESOURCE_TYPE_UNDEFINED** | 0 | Undefined resource |
| **DAM_RESOURCE_TYPE_ANALOG_INPUT** | 1 | Analog input |
| **DAM_RESOURCE_TYPE_DIGITAL_INPUT** | 2 | Digital input |
| **DAM_RESOURCE_TYPE_STATE** | 3 | State |
| **DAM_RESOURCE_TYPE_ALARM** | 4 | Alarm |
| **DAM_RESOURCE_TYPE_ANALOG_OUTPUT** | 5 | Analog output |
| **DAM_RESOURCE_TYPE_DIGITAL_OUTPUT** | 6 | Digital output |

## DAM_RES_OPER

**Use**

Operation codes for automated acquisition group settings.

| Literal | Value | Description |
|---|---|---|
| **DAM_RES_OPER_REMOVE_ALL** | 0 | Clears the complete group of resources previously defined. |
| **DAM_RES_OPER_REMOVE** | 1 | Remove a resource from the group. |
| **DAM_RES_OPER_ADD** | 2 | Insert a resource in the group. |
| **DAM_RES_OPER_SUBSTITUTE** | 3 | Substitute a group of resource with the one passed in the command. |

## DAM_INTERFACE_TYPE

**Use**

Network adapter license types for use with Softgate.
All other values are not valid for use with SoftGate.

| Literal | Value | Description |
|---|---|---|
| **DAM_INTERFACE_TYPE_MASTER_OCX** | 16 | Primary network adapter suitable for use with the distributable DAM COM object. |
| **DAM_INTERFACE_TYPE_EXPANTION** | 18 | N.A. |

## DAM_TYPE

**Use**

Available formats for a parameter in read/write operations.

| Literal | Value | Description |
|---|---|---|
| **DAM_TYPE_CHAR** | 0 | Signed integer (7 bits + sign bit) |
| **DAM_TYPE_BYTE** | 1 | Unsigned integer: 8 bits |
| **DAM_TYPE_SHORT** | 2 | Signed integer (15 bits + sign bit) |
| **DAM_TYPE_WORD** | 3 | Unsigned integer: 16 bits |
| **DAM_TYPE_LONG** | 4 | Signed integer (31 bits + sign bit) |
| **DAM_TYPE_DWORD** | 5 | Unsigned integer: 32 bits |
| **DAM_TYPE_FLOAT** | 6 | Real (32 bits single precision) |
| **DAM_TYPE_DOUBLE** | 7 | Real (64 bits double precision) |
| **DAM_TYPE_STRING** | 8 | ANSI string (8 bits per char). |
| **DAM_TYPE_BITS** | 9 | Unsigned integer (with variable size between 1 and 32 bits). |

## DAM_VAL

**USe**

Available values for the minimum/maximum range of a parameter.

| Literal | Value | Description |
|---|---|---|
| **DAM_VAL_NONE** | 0 | The parameter does not admit a minimum or maximum range value. |
| **DAM _VAL_ABSOLUTE** | 1 | The minimum or maximum value is an absolute value. |
| **DAM _VAL_LINKED_PARAM** | 2 | The minimum or maximum value is a reference to a parameter containing the value. |

## DAM_UM

**Use**

Measurement units for analog inputs and parameters.

| Literal | Value | Description |
|---|---|---|
| **DAM_UM_CELS** | 0 | Temperature expressed in Celsius degrees (**°C**) |
| **DAM_UM_FAR** | 1 | Temperature expressed in Fahrenheit degrees (**°F**) |
| **DAM _UM_RH** | 3 | Reletive Humidity expressed as a % (**% RH**) |
| **DAM _UM_VOID** | 4 | Undefined |
| **DAM _UM_PA** | 5 | Pressure expressed in pascal (**PA**) |
| **DAM _UM_BIN** | 6 | Digital binary status (**BIN**) |
| **DAM _UM_PSI** | 7 | Pressure expressed in Pascal (**PSI)** |
| **DAM _UM_VOLT** | 8 | Electrical voltage expressed in Volt (**V**) |
| **DAM _UM_AMP** | 9 | Electrical current expressed Ampere (**A**) |
| **DAM _UM_HZ** | 10 | Frequency expressed in Hertz (**Hz**) |
| **DAM_UM_PERC** | 11 | Percentage value (**%**) - added in v. 1.0.0 - |
| **DAM_UM_SECONDS** | 12 | Time expressed in seconds (**"**) - added in v. 1.0.0 - |
| **DAM_UM_MINUTES** | 13 | Time expressed in minutes (**'**) - added in v. 1.0.0 - |
| **DAM_UM_HOURS** | 14 | Time expressed in hours (**h**) - added in v. 1.0.0 - |
| **DAM_UM_CELS10** | 15 | Temperature expressed in tenth of Celsius degrees (**°C x10**) - added in v. 1.0.0 - |
| **DAM_UM_SECONDS10** | 16 | Time expressed in tenth of seconds (**" x 10**) - added in v. 1.0.0 - |
| **DAM_UM_BAR10** | 17 | Pressure expressed in tenth of **bar** - added in v. 1.0.0 - |

# 5. Data Structures.

## UDTAcquiredResource

**Use**

Information about a single resource acquired from a device, either in automated or manual mode.

| Field | Type | Description |
|---|---|---|
| **net_address** | **Long** | Address within the network of the parent device.<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **sub_address** | **Long** | Address within the sub-network of the parent device.<br>- added in v. 1.0.0 - |
| **type** | **DAM_RESOURCE_TYPE** | Resource type (see: **DAM_RESOURCE_TYPE**). |
| **index** | **Long** | Resource index within the **type** group of resources. |
| **id** | **Long** | Resource identifier |
| **value** | **Single** | Value of the resource as a floating point value<br>- changed in v 1.0.0 (old = **LONG**) - |
| **nolink** | **Long** | Loss of communication indicator (referred to the paret device). |
| **timestamp** | **Long** | time-stamp for the acquired value<br>- added in v. 1.0.0 - |

## UDTResourceDefinition

**Use**

Information necessary for automated resource management.

| Field | Type | Description |
|---|---|---|
| **address** | **Long** | Address within the network of the parent device.<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **type** | **DAM_RESOURCE_TYPE** | Resource type (see: **DAM_RESOURCE_TYPE).** |
| **index** | **Long** | Resource index within the **type** group of resources. |
| **id** | **Long** | Resource identifier |
| **sample_time** | **Long** | Time interval in seconds for resource data acquisition from the device. |

## UDTInstrumentInfo

### Use

Information that identifies exclusively a device within a network.

| Field | Type | Description |
|---|---|---|
| **address** | **Long** | Device address within the network.<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **family_msb** | **Long** | Device microprocessor/firmware family (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **family_lsb** | **Long** | Device microprocessor/firmware family (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **version_msb** | **Long** | Device firmware version (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **version_lsb** | **Long** | Device firmware version (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **software_day** | **Long** | Device firmware version release date (day of the month).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **software_month** | **Long** | Device firmware version release date (month).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **software_year** | **Long** | Device firmware version release date (year, last two digits).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **device_code_msb** | **Long** | Device model (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **device_code_lsb** | **Long** | Device model (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **pch_msb** | **Long** | Device parameter table index(msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **pch_lsb** | **Long** | Device parameter table index (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |

## UDTProtectionInfo

### Use

Information on functionalities enabled by the primary network adapter.

| Field | Type | Description |
|---|---|---|
| **is_valid** | **Long** | **TRUE** if the following information are given by the physical primary network device; **FALSE** if the component is running in DEMO mode for lack of information from the network adapter.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **interface_type** | **DAM_INTERFACE_TYPE** | Type of primary network adapter found (see: **DAM_INTERFACE_TYPE**). |
| **max_networks** | **Long** | Maximum number of simultaneously configured networks allowed for the component. |
| **ts_01** | **Long** | N.A. |
| **max_instruments** | **Long** | Maximum number of simultaneously configured devices for the component |

| | | |
|---|---|---|
| | | (total number for all the networks connected to the same personal computer) |
| **is_demo_mode** | **Long** | **TRUE** for DEMO MODE.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **has_async_read** | **Long** | **TRUE** if asynchronous (automated) data acquisition is allowed.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **has_global_command** | **Long** | **TRUE** if it is allowed to send direct commands to the devices.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_02** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_03** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **parameter_read_level** | **Long** | Maximum level of accessibility for device parameter reading (0 = means all parameters). |
| **parameter_write_level** | **Long** | Maximum level of accessibility for device parameter writing (0 = means all parameters). |
| **ts_04** | **Long** | N.A. |
| **ts_05** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_06** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_07** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_08** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_09** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_10** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_11** | **Long** | N.A.<br>- changed in v 1.0.0 (old = **BOOL**) - |
| **ts_12** | **Long** | N.A. |

## UDTTargetModel

### Use

Information of the device model needed to uniquely identify the parameter table model.

| Field | Type | Description |
|---|---|---|
| **family_msb** | **Long** | Device microprocessor/firmware family (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **family_lsb** | **Long** | Device microprocessor/firmware family (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **version_msb** | **Long** | Device firmware version (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **version_lsb** | **Long** | Device firmware version (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **device_code_msb** | **Long** | Device model (msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **device_code_lsb** | **Long** | Device model (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |
| **pch_msb** | **Long** | Device parameter table index(msb).<br>- changed in v 1.0.0 (old = **BYTE**) - |

| | | |
|---|---|---|
| **pch_lsb** | **Long** | Device parameter table index (lsb).<br>- changed in v 1.0.0 (old = **BYTE**) - |

## UDTParamInfo

### Use

Information on structure and value of a single parameter.

| Field | Type | Description |
|---|---|---|
| **id** | **Long** | Unique identifier of a parameter within a parameter table model. |
| **tag** | **String** | Parameter label. |
| **type** | **DAM_TYPE** | Parameter type. |
| **min_type** | **DAM_VAL** | Defines how **min_val** must be interpreted. |
| **min_val** | **Variant** | Minimum value for the parameter (according to **min_type**). |
| **max_type** | **DAM_VAL** | Defines how **max_val** must be interpreted. |
| **max_val** | **Variant** | Maximum value for the parameter (according to **max_type**). |
| **default_val** | **Variant** | Default value for the parameter. |
| **um** | **DAM_UM** | Measurement unit for the parameter. |
| **dec_point_pos** | **Long** | Decimal point position relative to the measurement unit type (+1, +2, … indicates that the value must be divided for 10, 100, …; 0 means that the value is correctly represented as per the measurement unit; -1, -2, … means that the value must be multiplied by 10, 100, …). |

# 6. Methods.

## AcquisitionConfig

**Description:**

Defines the group of resources that will be automatically acquired by the component; the resource may be defined one by one or by an array; if one group is already defined, the new array will substitute, or will be merged to the existing group depending on parameter **oper**.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_POINTER** | Parameter **info** is null. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**AcquisitionConfig**(*handle As Long, oper As* DAM_RES_OPER, *info() As* UDTResourceDefinition )

| Parameters | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the resources to be acquired. |
| ***oper*** | **DAM_RES_OPER** | Type of operation to be performed with the new resources. |
| ***info*** | **Array of UDTResourceDefinition** | Array of resources to be added to the group. |

## AddInstrument

**Description:**

Add a device to the list of devices managed by the component for a single network.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**AddInstrument**(*handle As* Long*, info As* UDTInstrumentInfo)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the resources to be acquired. |
| ***info*** | **UDTInstrumentInfo** | Unique identifier of the device to be added to the specified network. |

## GetAcquisitionState

**Description:**

Retrieves the acquisition mode state.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **FALSE** | Automated acquisitions are stopped. |
| **TRUE** | Automated acquisitions are running. |

**Syntax:**

**GetAcquisitionState**(*handle As Long*)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network for which the information is needed. |

## GetInstrumentsList

**Description:**

Retrievesthe list of configured devices for a single network; those devices has been configured using **AddInstrument** method.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_POINTER** | Parameter **info** is null. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetInstrumentsList**(*handle As* Long*, info() As* UDTInstrumentInfo)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network for which the information is needed. |
| ***info*** | **Array of UDTInstrumentInfo** | Array containing all the information about all the configured devices per the desiderate network. |

## GetIoConfiguration

**Description:**

Retrieves the list of resources managed by one device.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetIoConfiguration**(*handle As* Long*, addr As* BYTE*, digin() As* BYTE*, anin() As* BYTE*, um() As* BYTE*, mult() As* BYTE*, alarms() As* Long*, states() As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the target device. |
| ***addr*** | **BYTE** | Network address of the target device. |
| ***digin*** | **Array of BYTE** - changed in v 1.0.0 (old = **Long**) - | Array containing information about digital inputs managed by the device; the array size matches the maximum number of digital inputs allowed by this model of device; each item value enables / disables the single digital input in accordance with the current configuration of the device. |
| ***anin*** | **Array of BYTE** - changed in v 1.0.0 (old = **Long**) - | Array containing information about analog inputs managed by the device; the array size matches the maximum number of analog inputs allowed by this model of device; each item value enables / disables the single analog input in accordance with the current configuration of the device. |
| ***um*** | **Array of BYTE** - changed in v 1.0.0 (old = **Long**) - | Array containing information about measurement units for each analog input; size of the array and position of the items is the same as per **anin**. |

| | | |
|---|---|---|
| ***mult*** | **Array of BYTE**<br>- changed in v 1.0.0<br>(old = **Long**) - | Array containing information about multipliers for each analog input; multiplier are necessary to define the representation of the value in relation with the measurement unit specified by **um**; to correctly represent an analog value it is necessary to multiply it by the corresponding **mult**. |
| ***alarms*** | **Array of Long** | Array containing information about alarm codes managed by the device; alarm codes are listed in the appendix. |
| ***states*** | **Array of Long** | Array containing information about states managed by the device; state codes are listed in the appendix. |

## GetModelInfo

**Description:**

Acquire information on parameter table model; device model information are needed.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **E_POINTER** | Parameter **groups** is null. |
| **E_INVALIDARG** | Parameter **target** is null. |
| **E_OUTOFMEMORY** | Error building **groups** array. |

**Function return type:**

**DAM_RETURN_CODE**

| Value | Description |
|---|---|
| **DAM_RETURN_CODE_OK** | Operation correctly completed. |
| **DAM_RETURN_CODE_ERROR** | Operation not executed. |
| **DAM_RETURN_CODE_MODEL_NOT_FOUND** | No parameter table model is available for the specified device model. |

**Syntax:**

**GetModelInfo** ( *target* as UDTTargetModel, *name As* String*, description As* String*, Groups() as* Long*)* as **DAM_RETURN_CODE**

| Parameter | Type | Description |
|---|---|---|
| ***target*** | **UDTTargetModel** | Information that identifies the specific parameter table model. |
| ***name*** | **String** | Name of the model. |
| ***description*** | **String** | Description of the model. |
| ***groups*** | **Array of Long** | Array containing the information about parameter grouping; the size of the array matches the number of groups; each item represents the number of parameters for the group. |

## GetNetworksList

**Description:**

Retrieves the list of active networks; usually this method is invoked when a software connect to the component to retrieve all the information about the current configuration of the acquisition subsystem.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetNetworksList**(*handles() As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handles*** | **Array of Long** | Array of handles for all the active networks. |

## GetParametersInfo

**Description:**

Acquire information on all the parameters in a group for the selected parameter table model.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **E_POINTER** | Parameter **groups** is null. |
| **E_INVALIDARG** | Parameter **target** is null. |
| **E_OUTOFMEMORY** | Error building **parameters** array. |

**Function return type:**

**DAM_RETURN_CODE**

| Value | Description |
|---|---|
| **DAM_RETURN_CODE_OK** | Operation correctly completed. |
| **DAM_RETURN_CODE_ERROR** | Operation not executed. |
| **DAM_RETURN_CODE_MODEL_NOT_FOUND** | No parameter table model is available for the specified device model. |

**Syntax:**

**GetParametersInfo** (*target As* UDTTargetModel*, group As* Long*, parameters() As* UDTParamInfo) as **DAM_RETURN_CODE**

| Parametro | Tipo | Descrizione |
|---|---|---|
| ***model*** | **UDTTargetModel** | Information that identifies the specific parameter table model. |
| ***group*** | **Long** | Group index for which the parameter list is requested. |
| ***parameters*** | **Array of UDTParamInfo** | Array containing the information about all the parameters for the requested group. |

## GetProtectionInfo

**Description:**

Retrieves the data structure containing all the information about level of permissions to access the functionalities of the component; those information are given by the primary network adapter; if this primary adapter is not present the component runs in DEMO MODE.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetProtectionInfo**(*info As* UDTProtectionInfo)

| Parameter | Type | Description |
|---|---|---|
| ***info*** | **UDTProtectionInfo** | Data structure containing information about permissions level for the users of the component. |

## GetResourcesValue

**Description:**

Retrieves all the values for a type of resources in a single device; this method operates in two different ways depending on automated acquisition status:

- If the automated acquisition are stopped, this method acquires synchronously the data from the device for each resource.
- If the automated acquisition are running, this method gives the last buffered value for each resource.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_POINTER** | Parameter **values** is null. |
| **E_INVALIDARG** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetResourcesValue**(*handle As* Long*, addr As* BYTE*, restype As* DAM_RESOURCE_TYPE*, Values() As* Single)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the target device. |
| ***addr*** | **BYTE** | Network address of the target device. |
| ***restype*** | **DAM_RESOURCE_TYPE** | Type of resource to read. |
| ***values*** | **Array of Single** - changed in v. 1.0.0 (old = **Long**) - | Array of values for each resource of the device that matches the requested type. |

## GetResourcesValueSync

**Description:**

Retrieves all the values for a type of resources in a single device; this method always acquires synchronously the data from the device for each resource independently by the status of automated acquisition.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_POINTER** | Parameter **values** is null. |
| **E_INVALIDARG** | It is necessary to run network detection before this operation. |

**Syntax:**

**GetResourcesValueSync**(*handle As* Long, *addr As* BYTE, *restype As* DAM_RESOURCE_TYPE, *Values() As* Single)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the target device. |
| ***addr*** | **BYTE** | Network address of the target device. |
| ***restype*** | **DAM_RESOURCE_TYPE** | Type of resource to read. |
| ***values*** | **Array of Single** - changed in v. 1.0.0 (old = **Long**) - | Array of values for each resource of the device that matches the requested type. |

## NetworkCommand

**Description:**

Sends a direct command to a device.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**NetworkCommand**(*handle As* Long, *address As* BYTE, *cmd As* DAM_NETWORK_COMMAND, *mode As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the target device. |
| ***address*** | **BYTE** | Network address of the target device. |
| ***cmd*** | **DAM_NETWORK_COMMAND** | Command code. |
| ***mode*** | **Long** | Enable (1) or disable (0) the action related to the command. |

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PM02 n.a.

PM03 n.a.

## ReadSingleParameter

**Description:**

Read the current value of a parameter from a specified device.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **E_POINTER** | Parameter **id_param** is null. |
| **E_INVALIDARG** | Parameter **target** or **value** is null. |

**Function return type:**

**DAM_RETURN_CODE**

| Value | Description |
|---|---|
| **DAM_RETURN_CODE_OK** | Operation correctly completed. |
| **DAM_RETURN_CODE_ERROR** | Operation not executed. |
| **DAM_RETURN_CODE_MODEL_NOT_FOUND** | No parameter table model is available for the specified device model. |
| **DAM_RETURN_CODE_PARAMETER_NOT_FOUND** | Requested parameter is not available for the specified device model. |
| **DAM_RETURN_READ_ERROR** | Error reading a parameter from a device. |

**Syntax:**

**DAM_RETURN_CODE =** ReadSingleParameter (*handle As* long*, target As* UDTInstrumentInfo, *id_param As* long*, value As variant*)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle of the network containing the target device. |
| ***target*** | **UDTInstrumentInfo** | Information that identifies uniquely the target device. |
| ***id_param*** | **Long** | Unique identifier of the parameter within the parameter table model. |
| ***value*** | **Variant** | Value read from the device. |

## RemoveInterface

**Description:**

Removes all the handles to a network; automated acquisition referred to this network are stopped and all the references to the devices pertaining to that network ware destroyed.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**RemoveInterface**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network to be removed. |

## ResetInstrumentsList

**Description:**

Clears all the configured devices for a network; automated acquisition referred to this network are stopped.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**ResetInstrumentsList**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network to be cleared. |

## ScanNetwork

**Description:**

Scan a defined range of addresses in a network to find and identify the physically connected devices; this method operates in asynchronous mode; for each device that is found there will be an event of type **EvInstrument**; the end of the scan process generates the event **EvScanInstrumentsEnd**.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**ScanNetwork**(*handle As* Long*, fromaddr As* Long*, toaddr As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network to be scanned. |
| ***fromaddr*** | **Long** | First address to scan. |
| ***toaddr*** | **Long** | Last address to scan. |

## SearchNetworkInterface

**Description:**

Verify the presence of a network adapter on a single COM port; this method operates in asynchronous mode; information about the network adapter will be carried by an event of type **EvNetworkInterfaceFound**; at the end of the operations there will be an event of type **EvScanInstrumentsEnd**.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**SearchNetworkInterface**(*port As* Long*, handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***port*** | **Long** | Index of the COM port to check (1= COM1, …). |
| ***handle*** | **Long** | Handle that will be filled by the component with the unique identifier of the network. This is the reference that must be used with all the other methods. |

## StartAcquisition

**Description**

Start automated acquisition for all the configured resources for a specified network; if the level of permission allows that (see **GetProtectionInfo**), for each new acquisition there will be an event of type **EvAcquiredResources**; this event will be generated for each group of resources with a specific acquisition time interval.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**StartAcquisition**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the target network. |

## Stop

**Description:**

Close all the active communications and removes the handles for all networks. This operation is equivalent to call the method **RemoveInterface** for all the networks.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**Stop**

## StopAcquisition

**Description:**

Disables automated acquisitions for a specified network.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**StopAcquisition**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the target network. |

## StopScanInstruments

**Note:**

- added in v. 1.0.0 -

**Description:**

Stop instrument scan procedure for the selected network.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **S_OK** | Operation executed without errors. |
| **E_OUTOFMEMORY** | It is necessary to run network detection before this operation. |

**Syntax:**

**StopScanInstruments**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the target network. |

## WriteSingleParameter

**Description:**

Writes a value to a parameter in a specified device.

**Exception return type:**

**HRESULT**

| Value | Description |
|---|---|
| **E_POINTER** | Parameter **id_param** is null. |
| **E_INVALIDARG** | Parameter **target** or **value** is null. |

**Function return type:**

**DAM_RETURN_CODE**

| Value | Description |
|---|---|
| **DAM_RETURN_CODE_OK** | Operation correctly completed. |
| **DAM_RETURN_CODE_ERROR** | Operation not executed. |
| **DAM_RETURN_CODE_MODEL_NOT_FOUND** | No parameter table model is available for the specified device model. |
| **DAM_RETURN_CODE_PARAMETER_NOT_FOUND** | Requested parameter is not available for the specified device model. |
| **DAM_RETURN_WRITE_ERROR** | Error writing a parameter to a device. |

**Syntax:**

**WriteSingleParameter** (*handle As* Long*, target As* UDTInstrumentInfo, *id_param As* Long, *value As* Variant) as **DAM_RETURN_CODE**

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle of the network containing the target device. |
| ***target*** | **UDTInstrumentInfo** | Information that identifies uniquely the target device. |
| ***id_param*** | **Long** | Unique identifier of the parameter within the parameter table model. |
| ***value*** | **Variant** | Value to write to the device. |

# 7.Events.

## EvAcquiredResources

**Description**

This event comes with the values of acquired resources when in automated acquisition mode; all the resources referred by this event pertains to the same acquisition interval group. This event is generated only if:

- Automated acquisition are activated (see **Start** method).
- The permissions level allows this kind of event.

**Syntax**

**Sub EvAcquiredResources**(*handle As* Long*, acqres() As* UDTAcquiredResource)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the resources. |
| ***acqres*** | **Array of UDTAcquiredResource** | Array containing description and value for all the resources of the group with the same time interval. |

## EvInstrument

**Description**

This event comes with the information about a single instrument detected when canning a network for the presence of physically connected devices.

**Syntax**

**Sub EvInstrument**(*handle As Long, info As* UDTInstrumentInfo)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the device. |
| ***info*** | **UDTInstrumentInfo** | Information for the detected device. |

## EvLinkLost

**Description**

This event is generated as an information when it is not possible to communicate anymore with one network through a network adapter; to release all the resources for this network it is stil necessary to use the method **RemoveInterface.**

**Syntax**

**Sub EvLinkLost**(*handle As Long*)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network where the NoLink occurred. |

## EvNetworkCommandFailure

**Description**

This event id generated when it is not possible to execute a direct command to a device; this may be because the device does not support this type of command.

**Syntax**

**Sub EvNetworkCommandFailure**(*handle As* Long*, address As* BYTE*, cmd As* DAM_NETWORK_COMMAND*, error As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network containing the device. |
| ***address*** | **BYTE** | Address of the device within the network. |
| ***cmd*** | **DAM_NETWORK_COMMAND** | Original command code. |
| ***error*** | **Long** | Error code:<br>• -1: error during the execution of the command.<br>• -2: command not supported by the device. |

## EvNetworkInterfaceFound

**Description**

This event is generated when a network adapter is detected.

**Syntax**

**Sub EvNetworkInterfaceFound**(*handle As* Long*, info As* UDTInstrumentInfo)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the network where the adapter is found. |
| ***info*** | **UDTInstrumentInfo** | Information about the identified network adapter. |
| ***lDisabled*** | **Long** | Flag that indicates that the interface is enabled or disabled |

## EvScanInstrumentsEnd

**Description**

This event is generated when  the scan procedure on a network is ended.

**Syntax**

**Sub EvScanInstrumentsEnd**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the reference network. |

## EvSearchNetworkInterfaceEnd

**Description**

This event is generated when the verification for the presence of a network adapter on a COM port is ended.

**Syntax**

**Sub EvSearchNetworkInterfaceEnd**(*handle As* Long)

| Parameter | Type | Description |
|---|---|---|
| ***handle*** | **Long** | Handle to the reference network. |

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# 8. Appendix.

## A. Alarm codes.

| ID | DESCRIPTION |
|---|---|
| 1000 | EW_ALARM_ANALOG_1_HIGH |
| 1001 | EW_ALARM_ANALOG_2_HIGH |
| 1002 | EW_ALARM_ANALOG_3_HIGH |
| 1003 | EW_ALARM_ANALOG_4_HIGH |
| 1004 | EW_ALARM_ANALOG_5_HIGH |
| 1005 | EW_ALARM_ANALOG_6_HIGH |
| 1006 | EW_ALARM_ANALOG_7_HIGH |
| 1007 | EW_ALARM_ANALOG_8_HIGH |
| 1008 | EW_ALARM_ANALOG_9_HIGH |
| 1009 | EW_ALARM_ANALOG_10_HIGH |
| 1010 | EW_ALARM_ANALOG_11_HIGH |
| 1011 | EW_ALARM_ANALOG_12_HIGH |
| 1012 | EW_ALARM_ANALOG_13_HIGH |
| 1013 | EW_ALARM_ANALOG_14_HIGH |
| 1014 | EW_ALARM_ANALOG_15_HIGH |
| 1015 | EW_ALARM_ANALOG_16_HIGH |
| 1016 | EW_ALARM_ANALOG_17_HIGH |
| 1017 | EW_ALARM_ANALOG_18_HIGH |
| 1018 | EW_ALARM_ANALOG_19_HIGH |
| 1019 | EW_ALARM_ANALOG_20_HIGH |
| 1020 | EW_ALARM_ANALOG_21_HIGH |
| 1021 | EW_ALARM_ANALOG_22_HIGH |
| 1022 | EW_ALARM_ANALOG_23_HIGH |
| 1023 | EW_ALARM_ANALOG_24_HIGH |
| 1024 | EW_ALARM_ANALOG_25_HIGH |
| 1025 | EW_ALARM_ANALOG_26_HIGH |
| 1026 | EW_ALARM_ANALOG_27_HIGH |
| 1027 | EW_ALARM_ANALOG_28_HIGH |
| 1028 | EW_ALARM_ANALOG_29_HIGH |
| 1029 | EW_ALARM_ANALOG_30_HIGH |
| 1030 | EW_ALARM_ANALOG_31_HIGH |
| 1031 | EW_ALARM_ANALOG_32_HIGH |
| 1032 | EW_ALARM_ANALOG_33_HIGH |
| 1033 | EW_ALARM_ANALOG_34_HIGH |
| 1034 | EW_ALARM_ANALOG_35_HIGH |
| 1035 | EW_ALARM_ANALOG_36_HIGH |
| 1036 | EW_ALARM_ANALOG_37_HIGH |
| 1037 | EW_ALARM_ANALOG_38_HIGH |
| 1038 | EW_ALARM_ANALOG_39_HIGH |
| 1039 | EW_ALARM_ANALOG_40_HIGH |
| 1040 | EW_ALARM_ANALOG_41_HIGH |
| 1041 | EW_ALARM_ANALOG_42_HIGH |
| 1042 | EW_ALARM_ANALOG_43_HIGH |
| 1043 | EW_ALARM_ANALOG_44_HIGH |
| 1044 | EW_ALARM_ANALOG_45_HIGH |
| 1045 | EW_ALARM_ANALOG_46_HIGH |
| 1046 | EW_ALARM_ANALOG_47_HIGH |
| 1047 | EW_ALARM_ANALOG_48_HIGH |
| 1048 | EW_ALARM_ANALOG_49_HIGH |
| 1049 | EW_ALARM_ANALOG_50_HIGH |
| 1050 | EW_ALARM_ANALOG_51_HIGH |
| 1051 | EW_ALARM_ANALOG_52_HIGH |
| 1052 | EW_ALARM_ANALOG_53_HIGH |
| 1053 | EW_ALARM_ANALOG_54_HIGH |
| 1054 | EW_ALARM_ANALOG_55_HIGH |
| 1055 | EW_ALARM_ANALOG_56_HIGH |
| 1056 | EW_ALARM_ANALOG_57_HIGH |
| 1057 | EW_ALARM_ANALOG_58_HIGH |
| 1058 | EW_ALARM_ANALOG_59_HIGH |
| 1059 | EW_ALARM_ANALOG_60_HIGH |
| 1060 | EW_ALARM_ANALOG_61_HIGH |
| 1061 | EW_ALARM_ANALOG_62_HIGH |
| 1062 | EW_ALARM_ANALOG_63_HIGH |
| 1063 | EW_ALARM_ANALOG_64_HIGH |
| 1064 | EW_ALARM_ANALOG_65_HIGH |
| 1065 | EW_ALARM_ANALOG_66_HIGH |
| 1066 | EW_ALARM_ANALOG_67_HIGH |
| 1067 | EW_ALARM_ANALOG_68_HIGH |
| 1068 | EW_ALARM_ANALOG_69_HIGH |
| 1069 | EW_ALARM_ANALOG_70_HIGH |
| 1070 | EW_ALARM_ANALOG_71_HIGH |
| 1071 | EW_ALARM_ANALOG_72_HIGH |
| 1072 | EW_ALARM_ANALOG_73_HIGH |
| 1073 | EW_ALARM_ANALOG_74_HIGH |
| 1074 | EW_ALARM_ANALOG_75_HIGH |
| 1075 | EW_ALARM_ANALOG_76_HIGH |
| 1076 | EW_ALARM_ANALOG_77_HIGH |
| 1077 | EW_ALARM_ANALOG_78_HIGH |
| 1078 | EW_ALARM_ANALOG_79_HIGH |
| 1079 | EW_ALARM_ANALOG_80_HIGH |
| 1080 | EW_ALARM_ANALOG_81_HIGH |
| 1081 | EW_ALARM_ANALOG_82_HIGH |
| 1082 | EW_ALARM_ANALOG_83_HIGH |
| 1083 | EW_ALARM_ANALOG_84_HIGH |
| 1084 | EW_ALARM_ANALOG_85_HIGH |
| 1085 | EW_ALARM_ANALOG_86_HIGH |
| 1086 | EW_ALARM_ANALOG_87_HIGH |
| 1087 | EW_ALARM_ANALOG_88_HIGH |
| 1088 | EW_ALARM_ANALOG_89_HIGH |
| 1089 | EW_ALARM_ANALOG_90_HIGH |
| 1090 | EW_ALARM_ANALOG_91_HIGH |
| 1091 | EW_ALARM_ANALOG_92_HIGH |
| 1092 | EW_ALARM_ANALOG_93_HIGH |

| | |
|---|---|
| 1093 EW_ALARM_ANALOG_94_HIGH | 1145 EW_ALARM_ANALOG_46_LOW |
| 1094 EW_ALARM_ANALOG_95_HIGH | 1146 EW_ALARM_ANALOG_47_LOW |
| 1095 EW_ALARM_ANALOG_96_HIGH | 1147 EW_ALARM_ANALOG_48_LOW |
| 1096 EW_ALARM_ANALOG_97_HIGH | 1148 EW_ALARM_ANALOG_49_LOW |
| 1097 EW_ALARM_ANALOG_98_HIGH | 1149 EW_ALARM_ANALOG_50_LOW |
| 1098 EW_ALARM_ANALOG_99_HIGH | 1150 EW_ALARM_ANALOG_51_LOW |
| 1099 EW_ALARM_ANALOG_100_HIGH | 1151 EW_ALARM_ANALOG_52_LOW |
| 1100 EW_ALARM_ANALOG_1_LOW | 1152 EW_ALARM_ANALOG_53_LOW |
| 1101 EW_ALARM_ANALOG_2_LOW | 1153 EW_ALARM_ANALOG_54_LOW |
| 1102 EW_ALARM_ANALOG_3_LOW | 1154 EW_ALARM_ANALOG_55_LOW |
| 1103 EW_ALARM_ANALOG_4_LOW | 1155 EW_ALARM_ANALOG_56_LOW |
| 1104 EW_ALARM_ANALOG_5_LOW | 1156 EW_ALARM_ANALOG_57_LOW |
| 1105 EW_ALARM_ANALOG_6_LOW | 1157 EW_ALARM_ANALOG_58_LOW |
| 1106 EW_ALARM_ANALOG_7_LOW | 1158 EW_ALARM_ANALOG_59_LOW |
| 1107 EW_ALARM_ANALOG_8_LOW | 1159 EW_ALARM_ANALOG_60_LOW |
| 1108 EW_ALARM_ANALOG_9_LOW | 1160 EW_ALARM_ANALOG_61_LOW |
| 1109 EW_ALARM_ANALOG_10_LOW | 1161 EW_ALARM_ANALOG_62_LOW |
| 1110 EW_ALARM_ANALOG_11_LOW | 1162 EW_ALARM_ANALOG_63_LOW |
| 1111 EW_ALARM_ANALOG_12_LOW | 1163 EW_ALARM_ANALOG_64_LOW |
| 1112 EW_ALARM_ANALOG_13_LOW | 1164 EW_ALARM_ANALOG_65_LOW |
| 1113 EW_ALARM_ANALOG_14_LOW | 1165 EW_ALARM_ANALOG_66_LOW |
| 1114 EW_ALARM_ANALOG_15_LOW | 1166 EW_ALARM_ANALOG_67_LOW |
| 1115 EW_ALARM_ANALOG_16_LOW | 1167 EW_ALARM_ANALOG_68_LOW |
| 1116 EW_ALARM_ANALOG_17_LOW | 1168 EW_ALARM_ANALOG_69_LOW |
| 1117 EW_ALARM_ANALOG_18_LOW | 1169 EW_ALARM_ANALOG_70_LOW |
| 1118 EW_ALARM_ANALOG_19_LOW | 1170 EW_ALARM_ANALOG_71_LOW |
| 1119 EW_ALARM_ANALOG_20_LOW | 1171 EW_ALARM_ANALOG_72_LOW |
| 1120 EW_ALARM_ANALOG_21_LOW | 1172 EW_ALARM_ANALOG_73_LOW |
| 1121 EW_ALARM_ANALOG_22_LOW | 1173 EW_ALARM_ANALOG_74_LOW |
| 1122 EW_ALARM_ANALOG_23_LOW | 1174 EW_ALARM_ANALOG_75_LOW |
| 1123 EW_ALARM_ANALOG_24_LOW | 1175 EW_ALARM_ANALOG_76_LOW |
| 1124 EW_ALARM_ANALOG_25_LOW | 1176 EW_ALARM_ANALOG_77_LOW |
| 1125 EW_ALARM_ANALOG_26_LOW | 1177 EW_ALARM_ANALOG_78_LOW |
| 1126 EW_ALARM_ANALOG_27_LOW | 1178 EW_ALARM_ANALOG_79_LOW |
| 1127 EW_ALARM_ANALOG_28_LOW | 1179 EW_ALARM_ANALOG_80_LOW |
| 1128 EW_ALARM_ANALOG_29_LOW | 1180 EW_ALARM_ANALOG_81_LOW |
| 1129 EW_ALARM_ANALOG_30_LOW | 1181 EW_ALARM_ANALOG_82_LOW |
| 1130 EW_ALARM_ANALOG_31_LOW | 1182 EW_ALARM_ANALOG_83_LOW |
| 1131 EW_ALARM_ANALOG_32_LOW | 1183 EW_ALARM_ANALOG_84_LOW |
| 1132 EW_ALARM_ANALOG_33_LOW | 1184 EW_ALARM_ANALOG_85_LOW |
| 1133 EW_ALARM_ANALOG_34_LOW | 1185 EW_ALARM_ANALOG_86_LOW |
| 1134 EW_ALARM_ANALOG_35_LOW | 1186 EW_ALARM_ANALOG_87_LOW |
| 1135 EW_ALARM_ANALOG_36_LOW | 1187 EW_ALARM_ANALOG_88_LOW |
| 1136 EW_ALARM_ANALOG_37_LOW | 1188 EW_ALARM_ANALOG_89_LOW |
| 1137 EW_ALARM_ANALOG_38_LOW | 1189 EW_ALARM_ANALOG_90_LOW |
| 1138 EW_ALARM_ANALOG_39_LOW | 1190 EW_ALARM_ANALOG_91_LOW |
| 1139 EW_ALARM_ANALOG_40_LOW | 1191 EW_ALARM_ANALOG_92_LOW |
| 1140 EW_ALARM_ANALOG_41_LOW | 1192 EW_ALARM_ANALOG_93_LOW |
| 1141 EW_ALARM_ANALOG_42_LOW | 1193 EW_ALARM_ANALOG_94_LOW |
| 1142 EW_ALARM_ANALOG_43_LOW | 1194 EW_ALARM_ANALOG_95_LOW |
| 1143 EW_ALARM_ANALOG_44_LOW | 1195 EW_ALARM_ANALOG_96_LOW |
| 1144 EW_ALARM_ANALOG_45_LOW | 1196 EW_ALARM_ANALOG_97_LOW |

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| 1197 EW_ALARM_ANALOG_98_LOW | 1249 EW_ALARM_ANALOG_50_FAULT |
| 1198 EW_ALARM_ANALOG_99_LOW | 1250 EW_ALARM_ANALOG_51_FAULT |
| 1199 EW_ALARM_ANALOG_100_LOW | 1251 EW_ALARM_ANALOG_52_FAULT |
| 1200 EW_ALARM_ANALOG_1_FAULT | 1252 EW_ALARM_ANALOG_53_FAULT |
| 1201 EW_ALARM_ANALOG_2_FAULT | 1253 EW_ALARM_ANALOG_54_FAULT |
| 1202 EW_ALARM_ANALOG_3_FAULT | 1254 EW_ALARM_ANALOG_55_FAULT |
| 1203 EW_ALARM_ANALOG_4_FAULT | 1255 EW_ALARM_ANALOG_56_FAULT |
| 1204 EW_ALARM_ANALOG_5_FAULT | 1256 EW_ALARM_ANALOG_57_FAULT |
| 1205 EW_ALARM_ANALOG_6_FAULT | 1257 EW_ALARM_ANALOG_58_FAULT |
| 1206 EW_ALARM_ANALOG_7_FAULT | 1258 EW_ALARM_ANALOG_59_FAULT |
| 1207 EW_ALARM_ANALOG_8_FAULT | 1259 EW_ALARM_ANALOG_60_FAULT |
| 1208 EW_ALARM_ANALOG_9_FAULT | 1260 EW_ALARM_ANALOG_61_FAULT |
| 1209 EW_ALARM_ANALOG_10_FAULT | 1261 EW_ALARM_ANALOG_62_FAULT |
| 1210 EW_ALARM_ANALOG_11_FAULT | 1262 EW_ALARM_ANALOG_63_FAULT |
| 1211 EW_ALARM_ANALOG_12_FAULT | 1263 EW_ALARM_ANALOG_64_FAULT |
| 1212 EW_ALARM_ANALOG_13_FAULT | 1264 EW_ALARM_ANALOG_65_FAULT |
| 1213 EW_ALARM_ANALOG_14_FAULT | 1265 EW_ALARM_ANALOG_66_FAULT |
| 1214 EW_ALARM_ANALOG_15_FAULT | 1266 EW_ALARM_ANALOG_67_FAULT |
| 1215 EW_ALARM_ANALOG_16_FAULT | 1267 EW_ALARM_ANALOG_68_FAULT |
| 1216 EW_ALARM_ANALOG_17_FAULT | 1268 EW_ALARM_ANALOG_69_FAULT |
| 1217 EW_ALARM_ANALOG_18_FAULT | 1269 EW_ALARM_ANALOG_70_FAULT |
| 1218 EW_ALARM_ANALOG_19_FAULT | 1270 EW_ALARM_ANALOG_71_FAULT |
| 1219 EW_ALARM_ANALOG_20_FAULT | 1271 EW_ALARM_ANALOG_72_FAULT |
| 1220 EW_ALARM_ANALOG_21_FAULT | 1272 EW_ALARM_ANALOG_73_FAULT |
| 1221 EW_ALARM_ANALOG_22_FAULT | 1273 EW_ALARM_ANALOG_74_FAULT |
| 1222 EW_ALARM_ANALOG_23_FAULT | 1274 EW_ALARM_ANALOG_75_FAULT |
| 1223 EW_ALARM_ANALOG_24_FAULT | 1275 EW_ALARM_ANALOG_76_FAULT |
| 1224 EW_ALARM_ANALOG_25_FAULT | 1276 EW_ALARM_ANALOG_77_FAULT |
| 1225 EW_ALARM_ANALOG_26_FAULT | 1277 EW_ALARM_ANALOG_78_FAULT |
| 1226 EW_ALARM_ANALOG_27_FAULT | 1278 EW_ALARM_ANALOG_79_FAULT |
| 1227 EW_ALARM_ANALOG_28_FAULT | 1279 EW_ALARM_ANALOG_80_FAULT |
| 1228 EW_ALARM_ANALOG_29_FAULT | 1280 EW_ALARM_ANALOG_81_FAULT |
| 1229 EW_ALARM_ANALOG_30_FAULT | 1281 EW_ALARM_ANALOG_82_FAULT |
| 1230 EW_ALARM_ANALOG_31_FAULT | 1282 EW_ALARM_ANALOG_83_FAULT |
| 1231 EW_ALARM_ANALOG_32_FAULT | 1283 EW_ALARM_ANALOG_84_FAULT |
| 1232 EW_ALARM_ANALOG_33_FAULT | 1284 EW_ALARM_ANALOG_85_FAULT |
| 1233 EW_ALARM_ANALOG_34_FAULT | 1285 EW_ALARM_ANALOG_86_FAULT |
| 1234 EW_ALARM_ANALOG_35_FAULT | 1286 EW_ALARM_ANALOG_87_FAULT |
| 1235 EW_ALARM_ANALOG_36_FAULT | 1287 EW_ALARM_ANALOG_88_FAULT |
| 1236 EW_ALARM_ANALOG_37_FAULT | 1288 EW_ALARM_ANALOG_89_FAULT |
| 1237 EW_ALARM_ANALOG_38_FAULT | 1289 EW_ALARM_ANALOG_90_FAULT |
| 1238 EW_ALARM_ANALOG_39_FAULT | 1290 EW_ALARM_ANALOG_91_FAULT |
| 1239 EW_ALARM_ANALOG_40_FAULT | 1291 EW_ALARM_ANALOG_92_FAULT |
| 1240 EW_ALARM_ANALOG_41_FAULT | 1292 EW_ALARM_ANALOG_93_FAULT |
| 1241 EW_ALARM_ANALOG_42_FAULT | 1293 EW_ALARM_ANALOG_94_FAULT |
| 1242 EW_ALARM_ANALOG_43_FAULT | 1294 EW_ALARM_ANALOG_95_FAULT |
| 1243 EW_ALARM_ANALOG_44_FAULT | 1295 EW_ALARM_ANALOG_96_FAULT |
| 1244 EW_ALARM_ANALOG_45_FAULT | 1296 EW_ALARM_ANALOG_97_FAULT |
| 1245 EW_ALARM_ANALOG_46_FAULT | 1297 EW_ALARM_ANALOG_98_FAULT |
| 1246 EW_ALARM_ANALOG_47_FAULT | 1298 EW_ALARM_ANALOG_99_FAULT |
| 1247 EW_ALARM_ANALOG_48_FAULT | 1299 EW_ALARM_ANALOG_100_FAULT |
| 1248 EW_ALARM_ANALOG_49_FAULT | 1300 EW_ALARM_DIGITAL_1 |

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| 1301 EW_ALARM_DIGITAL_2 | 1353 EW_ALARM_DIGITAL_54 |
| 1302 EW_ALARM_DIGITAL_3 | 1354 EW_ALARM_DIGITAL_55 |
| 1303 EW_ALARM_DIGITAL_4 | 1355 EW_ALARM_DIGITAL_56 |
| 1304 EW_ALARM_DIGITAL_5 | 1356 EW_ALARM_DIGITAL_57 |
| 1305 EW_ALARM_DIGITAL_6 | 1357 EW_ALARM_DIGITAL_58 |
| 1306 EW_ALARM_DIGITAL_7 | 1358 EW_ALARM_DIGITAL_59 |
| 1307 EW_ALARM_DIGITAL_8 | 1359 EW_ALARM_DIGITAL_60 |
| 1308 EW_ALARM_DIGITAL_9 | 1360 EW_ALARM_DIGITAL_61 |
| 1309 EW_ALARM_DIGITAL_10 | 1361 EW_ALARM_DIGITAL_62 |
| 1310 EW_ALARM_DIGITAL_11 | 1362 EW_ALARM_DIGITAL_63 |
| 1311 EW_ALARM_DIGITAL_12 | 1363 EW_ALARM_DIGITAL_64 |
| 1312 EW_ALARM_DIGITAL_13 | 1364 EW_ALARM_DIGITAL_65 |
| 1313 EW_ALARM_DIGITAL_14 | 1365 EW_ALARM_DIGITAL_66 |
| 1314 EW_ALARM_DIGITAL_15 | 1366 EW_ALARM_DIGITAL_67 |
| 1315 EW_ALARM_DIGITAL_16 | 1367 EW_ALARM_DIGITAL_68 |
| 1316 EW_ALARM_DIGITAL_17 | 1368 EW_ALARM_DIGITAL_69 |
| 1317 EW_ALARM_DIGITAL_18 | 1369 EW_ALARM_DIGITAL_70 |
| 1318 EW_ALARM_DIGITAL_19 | 1370 EW_ALARM_DIGITAL_71 |
| 1319 EW_ALARM_DIGITAL_20 | 1371 EW_ALARM_DIGITAL_72 |
| 1320 EW_ALARM_DIGITAL_21 | 1372 EW_ALARM_DIGITAL_73 |
| 1321 EW_ALARM_DIGITAL_22 | 1373 EW_ALARM_DIGITAL_74 |
| 1322 EW_ALARM_DIGITAL_23 | 1374 EW_ALARM_DIGITAL_75 |
| 1323 EW_ALARM_DIGITAL_24 | 1375 EW_ALARM_DIGITAL_76 |
| 1324 EW_ALARM_DIGITAL_25 | 1376 EW_ALARM_DIGITAL_77 |
| 1325 EW_ALARM_DIGITAL_26 | 1377 EW_ALARM_DIGITAL_78 |
| 1326 EW_ALARM_DIGITAL_27 | 1378 EW_ALARM_DIGITAL_79 |
| 1327 EW_ALARM_DIGITAL_28 | 1379 EW_ALARM_DIGITAL_80 |
| 1328 EW_ALARM_DIGITAL_29 | 1380 EW_ALARM_DIGITAL_81 |
| 1329 EW_ALARM_DIGITAL_30 | 1381 EW_ALARM_DIGITAL_82 |
| 1330 EW_ALARM_DIGITAL_31 | 1382 EW_ALARM_DIGITAL_83 |
| 1331 EW_ALARM_DIGITAL_32 | 1383 EW_ALARM_DIGITAL_84 |
| 1332 EW_ALARM_DIGITAL_33 | 1384 EW_ALARM_DIGITAL_85 |
| 1333 EW_ALARM_DIGITAL_34 | 1385 EW_ALARM_DIGITAL_86 |
| 1334 EW_ALARM_DIGITAL_35 | 1386 EW_ALARM_DIGITAL_87 |
| 1335 EW_ALARM_DIGITAL_36 | 1387 EW_ALARM_DIGITAL_88 |
| 1336 EW_ALARM_DIGITAL_37 | 1388 EW_ALARM_DIGITAL_89 |
| 1337 EW_ALARM_DIGITAL_38 | 1389 EW_ALARM_DIGITAL_90 |
| 1338 EW_ALARM_DIGITAL_39 | 1390 EW_ALARM_DIGITAL_91 |
| 1339 EW_ALARM_DIGITAL_40 | 1391 EW_ALARM_DIGITAL_92 |
| 1340 EW_ALARM_DIGITAL_41 | 1392 EW_ALARM_DIGITAL_93 |
| 1341 EW_ALARM_DIGITAL_42 | 1393 EW_ALARM_DIGITAL_94 |
| 1342 EW_ALARM_DIGITAL_43 | 1394 EW_ALARM_DIGITAL_95 |
| 1343 EW_ALARM_DIGITAL_44 | 1395 EW_ALARM_DIGITAL_96 |
| 1344 EW_ALARM_DIGITAL_45 | 1396 EW_ALARM_DIGITAL_97 |
| 1345 EW_ALARM_DIGITAL_46 | 1397 EW_ALARM_DIGITAL_98 |
| 1346 EW_ALARM_DIGITAL_47 | 1398 EW_ALARM_DIGITAL_99 |
| 1347 EW_ALARM_DIGITAL_48 | 1399 EW_ALARM_DIGITAL_100 |
| 1348 EW_ALARM_DIGITAL_49 | 1400 EW_ALARM_DIGITAL_COMPRESSOR_1 |
| 1349 EW_ALARM_DIGITAL_50 | 1401 EW_ALARM_DIGITAL_COMPRESSOR_2 |
| 1350 EW_ALARM_DIGITAL_51 | 1402 EW_ALARM_DIGITAL_COMPRESSOR_3 |
| 1351 EW_ALARM_DIGITAL_52 | 1403 EW_ALARM_DIGITAL_COMPRESSOR_4 |
| 1352 EW_ALARM_DIGITAL_53 | 1404 EW_ALARM_DIGITAL_COMPRESSOR_5 |

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| 1405 EW_ALARM_DIGITAL_COMPRESSOR_6 | 1457 EW_ALARM_DIGITAL_COMPRESSOR_58 |
| 1406 EW_ALARM_DIGITAL_COMPRESSOR_7 | 1458 EW_ALARM_DIGITAL_COMPRESSOR_59 |
| 1407 EW_ALARM_DIGITAL_COMPRESSOR_8 | 1459 EW_ALARM_DIGITAL_COMPRESSOR_60 |
| 1408 EW_ALARM_DIGITAL_COMPRESSOR_9 | 1460 EW_ALARM_DIGITAL_COMPRESSOR_61 |
| 1409 EW_ALARM_DIGITAL_COMPRESSOR_10 | 1461 EW_ALARM_DIGITAL_COMPRESSOR_62 |
| 1410 EW_ALARM_DIGITAL_COMPRESSOR_11 | 1462 EW_ALARM_DIGITAL_COMPRESSOR_63 |
| 1411 EW_ALARM_DIGITAL_COMPRESSOR_12 | 1463 EW_ALARM_DIGITAL_COMPRESSOR_64 |
| 1412 EW_ALARM_DIGITAL_COMPRESSOR_13 | 1464 EW_ALARM_DIGITAL_COMPRESSOR_65 |
| 1413 EW_ALARM_DIGITAL_COMPRESSOR_14 | 1465 EW_ALARM_DIGITAL_COMPRESSOR_66 |
| 1414 EW_ALARM_DIGITAL_COMPRESSOR_15 | 1466 EW_ALARM_DIGITAL_COMPRESSOR_67 |
| 1415 EW_ALARM_DIGITAL_COMPRESSOR_16 | 1467 EW_ALARM_DIGITAL_COMPRESSOR_68 |
| 1416 EW_ALARM_DIGITAL_COMPRESSOR_17 | 1468 EW_ALARM_DIGITAL_COMPRESSOR_69 |
| 1417 EW_ALARM_DIGITAL_COMPRESSOR_18 | 1469 EW_ALARM_DIGITAL_COMPRESSOR_70 |
| 1418 EW_ALARM_DIGITAL_COMPRESSOR_19 | 1470 EW_ALARM_DIGITAL_COMPRESSOR_71 |
| 1419 EW_ALARM_DIGITAL_COMPRESSOR_20 | 1471 EW_ALARM_DIGITAL_COMPRESSOR_72 |
| 1420 EW_ALARM_DIGITAL_COMPRESSOR_21 | 1472 EW_ALARM_DIGITAL_COMPRESSOR_73 |
| 1421 EW_ALARM_DIGITAL_COMPRESSOR_22 | 1473 EW_ALARM_DIGITAL_COMPRESSOR_74 |
| 1422 EW_ALARM_DIGITAL_COMPRESSOR_23 | 1474 EW_ALARM_DIGITAL_COMPRESSOR_75 |
| 1423 EW_ALARM_DIGITAL_COMPRESSOR_24 | 1475 EW_ALARM_DIGITAL_COMPRESSOR_76 |
| 1424 EW_ALARM_DIGITAL_COMPRESSOR_25 | 1476 EW_ALARM_DIGITAL_COMPRESSOR_77 |
| 1425 EW_ALARM_DIGITAL_COMPRESSOR_26 | 1477 EW_ALARM_DIGITAL_COMPRESSOR_78 |
| 1426 EW_ALARM_DIGITAL_COMPRESSOR_27 | 1478 EW_ALARM_DIGITAL_COMPRESSOR_79 |
| 1427 EW_ALARM_DIGITAL_COMPRESSOR_28 | 1479 EW_ALARM_DIGITAL_COMPRESSOR_80 |
| 1428 EW_ALARM_DIGITAL_COMPRESSOR_29 | 1480 EW_ALARM_DIGITAL_COMPRESSOR_81 |
| 1429 EW_ALARM_DIGITAL_COMPRESSOR_30 | 1481 EW_ALARM_DIGITAL_COMPRESSOR_82 |
| 1430 EW_ALARM_DIGITAL_COMPRESSOR_31 | 1482 EW_ALARM_DIGITAL_COMPRESSOR_83 |
| 1431 EW_ALARM_DIGITAL_COMPRESSOR_32 | 1483 EW_ALARM_DIGITAL_COMPRESSOR_84 |
| 1432 EW_ALARM_DIGITAL_COMPRESSOR_33 | 1484 EW_ALARM_DIGITAL_COMPRESSOR_85 |
| 1433 EW_ALARM_DIGITAL_COMPRESSOR_34 | 1485 EW_ALARM_DIGITAL_COMPRESSOR_86 |
| 1434 EW_ALARM_DIGITAL_COMPRESSOR_35 | 1486 EW_ALARM_DIGITAL_COMPRESSOR_87 |
| 1435 EW_ALARM_DIGITAL_COMPRESSOR_36 | 1487 EW_ALARM_DIGITAL_COMPRESSOR_88 |
| 1436 EW_ALARM_DIGITAL_COMPRESSOR_37 | 1488 EW_ALARM_DIGITAL_COMPRESSOR_89 |
| 1437 EW_ALARM_DIGITAL_COMPRESSOR_38 | 1489 EW_ALARM_DIGITAL_COMPRESSOR_90 |
| 1438 EW_ALARM_DIGITAL_COMPRESSOR_39 | 1490 EW_ALARM_DIGITAL_COMPRESSOR_91 |
| 1439 EW_ALARM_DIGITAL_COMPRESSOR_40 | 1491 EW_ALARM_DIGITAL_COMPRESSOR_92 |
| 1440 EW_ALARM_DIGITAL_COMPRESSOR_41 | 1492 EW_ALARM_DIGITAL_COMPRESSOR_93 |
| 1441 EW_ALARM_DIGITAL_COMPRESSOR_42 | 1493 EW_ALARM_DIGITAL_COMPRESSOR_94 |
| 1442 EW_ALARM_DIGITAL_COMPRESSOR_43 | 1494 EW_ALARM_DIGITAL_COMPRESSOR_95 |
| 1443 EW_ALARM_DIGITAL_COMPRESSOR_44 | 1495 EW_ALARM_DIGITAL_COMPRESSOR_96 |
| 1444 EW_ALARM_DIGITAL_COMPRESSOR_45 | 1496 EW_ALARM_DIGITAL_COMPRESSOR_97 |
| 1445 EW_ALARM_DIGITAL_COMPRESSOR_46 | 1497 EW_ALARM_DIGITAL_COMPRESSOR_98 |
| 1446 EW_ALARM_DIGITAL_COMPRESSOR_47 | 1498 EW_ALARM_DIGITAL_COMPRESSOR_99 |
| 1447 EW_ALARM_DIGITAL_COMPRESSOR_48 | 1499 EW_ALARM_DIGITAL_COMPRESSOR_100 |
| 1448 EW_ALARM_DIGITAL_COMPRESSOR_49 | 1500 EW_ALARM_DIGITAL_FAN_1 |
| 1449 EW_ALARM_DIGITAL_COMPRESSOR_50 | 1501 EW_ALARM_DIGITAL_FAN_2 |
| 1450 EW_ALARM_DIGITAL_COMPRESSOR_51 | 1502 EW_ALARM_DIGITAL_FAN_3 |
| 1451 EW_ALARM_DIGITAL_COMPRESSOR_52 | 1503 EW_ALARM_DIGITAL_FAN_4 |
| 1452 EW_ALARM_DIGITAL_COMPRESSOR_53 | 1504 EW_ALARM_DIGITAL_FAN_5 |
| 1453 EW_ALARM_DIGITAL_COMPRESSOR_54 | 1505 EW_ALARM_DIGITAL_FAN_6 |
| 1454 EW_ALARM_DIGITAL_COMPRESSOR_55 | 1506 EW_ALARM_DIGITAL_FAN_7 |
| 1455 EW_ALARM_DIGITAL_COMPRESSOR_56 | 1507 EW_ALARM_DIGITAL_FAN_8 |
| 1456 EW_ALARM_DIGITAL_COMPRESSOR_57 | 1508 EW_ALARM_DIGITAL_FAN_9 |

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| 1509 EW_ALARM_DIGITAL_FAN_10 | 1561 EW_ALARM_DIGITAL_FAN_62 |
| 1510 EW_ALARM_DIGITAL_FAN_11 | 1562 EW_ALARM_DIGITAL_FAN_63 |
| 1511 EW_ALARM_DIGITAL_FAN_12 | 1563 EW_ALARM_DIGITAL_FAN_64 |
| 1512 EW_ALARM_DIGITAL_FAN_13 | 1564 EW_ALARM_DIGITAL_FAN_65 |
| 1513 EW_ALARM_DIGITAL_FAN_14 | 1565 EW_ALARM_DIGITAL_FAN_66 |
| 1514 EW_ALARM_DIGITAL_FAN_15 | 1566 EW_ALARM_DIGITAL_FAN_67 |
| 1515 EW_ALARM_DIGITAL_FAN_16 | 1567 EW_ALARM_DIGITAL_FAN_68 |
| 1516 EW_ALARM_DIGITAL_FAN_17 | 1568 EW_ALARM_DIGITAL_FAN_69 |
| 1517 EW_ALARM_DIGITAL_FAN_18 | 1569 EW_ALARM_DIGITAL_FAN_70 |
| 1518 EW_ALARM_DIGITAL_FAN_19 | 1570 EW_ALARM_DIGITAL_FAN_71 |
| 1519 EW_ALARM_DIGITAL_FAN_20 | 1571 EW_ALARM_DIGITAL_FAN_72 |
| 1520 EW_ALARM_DIGITAL_FAN_21 | 1572 EW_ALARM_DIGITAL_FAN_73 |
| 1521 EW_ALARM_DIGITAL_FAN_22 | 1573 EW_ALARM_DIGITAL_FAN_74 |
| 1522 EW_ALARM_DIGITAL_FAN_23 | 1574 EW_ALARM_DIGITAL_FAN_75 |
| 1523 EW_ALARM_DIGITAL_FAN_24 | 1575 EW_ALARM_DIGITAL_FAN_76 |
| 1524 EW_ALARM_DIGITAL_FAN_25 | 1576 EW_ALARM_DIGITAL_FAN_77 |
| 1525 EW_ALARM_DIGITAL_FAN_26 | 1577 EW_ALARM_DIGITAL_FAN_78 |
| 1526 EW_ALARM_DIGITAL_FAN_27 | 1578 EW_ALARM_DIGITAL_FAN_79 |
| 1527 EW_ALARM_DIGITAL_FAN_28 | 1579 EW_ALARM_DIGITAL_FAN_80 |
| 1528 EW_ALARM_DIGITAL_FAN_29 | 1580 EW_ALARM_DIGITAL_FAN_81 |
| 1529 EW_ALARM_DIGITAL_FAN_30 | 1581 EW_ALARM_DIGITAL_FAN_82 |
| 1530 EW_ALARM_DIGITAL_FAN_31 | 1582 EW_ALARM_DIGITAL_FAN_83 |
| 1531 EW_ALARM_DIGITAL_FAN_32 | 1583 EW_ALARM_DIGITAL_FAN_84 |
| 1532 EW_ALARM_DIGITAL_FAN_33 | 1584 EW_ALARM_DIGITAL_FAN_85 |
| 1533 EW_ALARM_DIGITAL_FAN_34 | 1585 EW_ALARM_DIGITAL_FAN_86 |
| 1534 EW_ALARM_DIGITAL_FAN_35 | 1586 EW_ALARM_DIGITAL_FAN_87 |
| 1535 EW_ALARM_DIGITAL_FAN_36 | 1587 EW_ALARM_DIGITAL_FAN_88 |
| 1536 EW_ALARM_DIGITAL_FAN_37 | 1588 EW_ALARM_DIGITAL_FAN_89 |
| 1537 EW_ALARM_DIGITAL_FAN_38 | 1589 EW_ALARM_DIGITAL_FAN_90 |
| 1538 EW_ALARM_DIGITAL_FAN_39 | 1590 EW_ALARM_DIGITAL_FAN_91 |
| 1539 EW_ALARM_DIGITAL_FAN_40 | 1591 EW_ALARM_DIGITAL_FAN_92 |
| 1540 EW_ALARM_DIGITAL_FAN_41 | 1592 EW_ALARM_DIGITAL_FAN_93 |
| 1541 EW_ALARM_DIGITAL_FAN_42 | 1593 EW_ALARM_DIGITAL_FAN_94 |
| 1542 EW_ALARM_DIGITAL_FAN_43 | 1594 EW_ALARM_DIGITAL_FAN_95 |
| 1543 EW_ALARM_DIGITAL_FAN_44 | 1595 EW_ALARM_DIGITAL_FAN_96 |
| 1544 EW_ALARM_DIGITAL_FAN_45 | 1596 EW_ALARM_DIGITAL_FAN_97 |
| 1545 EW_ALARM_DIGITAL_FAN_46 | 1597 EW_ALARM_DIGITAL_FAN_98 |
| 1546 EW_ALARM_DIGITAL_FAN_47 | 1598 EW_ALARM_DIGITAL_FAN_99 |
| 1547 EW_ALARM_DIGITAL_FAN_48 | 1599 EW_ALARM_DIGITAL_FAN_100 |
| 1548 EW_ALARM_DIGITAL_FAN_49 | 1600 EW_ALARM_PRESSURE |
| 1549 EW_ALARM_DIGITAL_FAN_50 | 1601 EW_ALARM_LOW_PRESSURE |
| 1550 EW_ALARM_DIGITAL_FAN_51 | 1602 EW_ALARM_HIGH_PRESSURE |
| 1551 EW_ALARM_DIGITAL_FAN_52 | 1603 EW_ALARM_RTC |
| 1552 EW_ALARM_DIGITAL_FAN_53 | 1604 EW_ALARM_EEPROM |
| 1553 EW_ALARM_DIGITAL_FAN_54 | 1605 EW_ALARM_MAINTENANCE |
| 1554 EW_ALARM_DIGITAL_FAN_55 | 1606 EW_ALARM_POWER_FAILURE |
| 1555 EW_ALARM_DIGITAL_FAN_56 | 1607 EW_ALARM_CRITICAL_FAULT |
| 1556 EW_ALARM_DIGITAL_FAN_57 | 1608 EW_ALARM_DOOR_SWITCH |
| 1557 EW_ALARM_DIGITAL_FAN_58 | 1609 EW_ALARM_DEFROST_TIMEOUT |
| 1558 EW_ALARM_DIGITAL_FAN_59 | 1610 EW_ALARM_LOW_BATTERY |
| 1559 EW_ALARM_DIGITAL_FAN_60 | 1611 EW_ALARM_SLAVE_COMMUNICATION |
| 1560 EW_ALARM_DIGITAL_FAN_61 | 1612 EW_ALARM_INVALID_C_CARD |

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| 1613 | EW_ALARM_GENERAL_PROBE |
| 1614 | EW_ALARM_FREQUENCY_SYNC |
| 1615 | EW_ALARM_CRITICAL_PRESSURE |
| 1616 | EW_ALARM_FAN_PRESSURE |
| 1617 | EW_ALARM_FAN_LOW_PRESSURE |
| 1618 | EW_ALARM_FAN_HIGH_PRESSURE |
| 1619 | EW_ALARM_CRANCKCASE_HEATER |
| 1620 | EW_ALARM_CRC |
| 1621 | EW_ALARM_EXTERNAL |
| 1622 | EW_ALARM_SONDA_PRESS_ASPIRAZIONE |
| 1623 | EW_ALARM_SONDA_PRESS_CONDENSAZIONE |
| 1624 | EW_ALARM_SONDA_PRESS_LAMINAZIONE |
| 1625 | EW_ALARM_SONDA_MISURA_POTENZA |
| 1626 | EW_ALARM_SONDA_TEMPER_ASPIRAZIONE |
| 1627 | EW_ALARM_SONDA_TEMPER_CONDENSAZIONE |
| 1628 | EW_ALARM_SONDA_TEMPER_LAMINAZIONE |
| 1629 | EW_ALARM_MANUTENZIONE |
| 1630 | EW_ALARM_REGOLATORE_RISERVE |
| 1631 | EW_ALARM_PROTEZIONE_COMPRESSORE |
| 1632 | EW_ALARM_PRESSOSTATO |
| 1633 | EW_ALARM_PRESS_ASPIRAZIONE_LAMINAZIONE |
| 1634 | EW_ALARM_SURRISCALDAMENTO |
| 1635 | EW_ALARM_LIMITE_POTENZA |
| 1336 | EW_ALARM_PROTEZIONE_VENTOLE |
| 1637 | EW_ALARM_NOLINK |
| 1638 | EW_ALARM_PRES_1 |
| 1639 | EW_ALARM_PRES_2 |
| 1640 | EW_ALARM_PRES_3 |
| 1641 | EW_ALARM_PRES_4 |
| 1642 | EW_ALARM_PRES_5 |
| 1643 | EW_ALARM_PRES_6 |
| 1644 | EW_ALARM_PRES_7 |
| 1645 | EW_ALARM_PRES_8 |
| 1646 | EW_ALARM_PRES_9 |
| 1647 | EW_ALARM_PRES_10 |
| 1648 | EW_ALARM_PRES_11 |
| 1649 | EW_ALARM_PRES_12 |
| 1650 | EW_ALARM_PRES_13 |
| 1651 | EW_ALARM_PRES_14 |
| 1652 | EW_ALARM_PRES_15 |
| 1653 | EW_ALARM_PRES_16 |
| 1654 | EW_ALARM_PRES_17 |
| 1655 | EW_ALARM_PRES_18 |
| 1656 | EW_ALARM_PRES_19 |
| 1657 | EW_ALARM_PRES_20 |
| 1658 | EW_ALARM_PRES_21 |
| 1659 | EW_ALARM_PRES_22 |
| 1660 | EW_ALARM_PRES_23 |
| 1661 | EW_ALARM_PRES_24 |
| 1662 | EW_ALARM_PRES_25 |
| 1663 | EW_ALARM_PRES_26 |
| 1664 | EW_ALARM_PRES_27 |
| 1665 | EW_ALARM_PRES_28 |
| 1666 | EW_ALARM_PRES_29 |
| 1667 | EW_ALARM_PRES_30 |
| 1668 | EW_ALARM_PRES_31 |
| 1669 | EW_ALARM_PRES_32 |
| 1670 | EW_ALARM_PRES_33 |
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| 1719 | EW_ALARM_PRES_82 |

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| 1736 | EW_ALARM_PRES_99 |
| 1737 | EW_ALARM_PRES_100 |
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| 1825 | EW_ALARM_PRES_LOW_88 |
| 1826 | EW_ALARM_PRES_LOW_89 |
| 1827 | EW_ALARM_PRES_LOW_90 |

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|---|---|
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| 1829 | EW_ALARM_PRES_LOW_92 |
| 1830 | EW_ALARM_PRES_LOW_93 |
| 1831 | EW_ALARM_PRES_LOW_94 |
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| 1835 | EW_ALARM_PRES_LOW_98 |
| 1836 | EW_ALARM_PRES_LOW_99 |
| 1837 | EW_ALARM_PRES_LOW_100 |
| 1838 | W_ALARM_PRES_HIGH_1 |
| 1839 | W_ALARM_PRES_HIGH_2 |
| 1840 | W_ALARM_PRES_HIGH_3 |
| 1841 | W_ALARM_PRES_HIGH_4 |
| 1842 | W_ALARM_PRES_HIGH_5 |
| 1843 | W_ALARM_PRES_HIGH_6 |
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| 1845 | W_ALARM_PRES_HIGH_8 |
| 1846 | W_ALARM_PRES_HIGH_9 |
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| 1889 | W_ALARM_PRES_HIGH_52 |
| 1890 | W_ALARM_PRES_HIGH_53 |
| 1891 | W_ALARM_PRES_HIGH_54 |
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| 1893 | W_ALARM_PRES_HIGH_56 |
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| 1900 | W_ALARM_PRES_HIGH_63 |
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| 1902 | W_ALARM_PRES_HIGH_65 |
| 1903 | W_ALARM_PRES_HIGH_66 |
| 1904 | W_ALARM_PRES_HIGH_67 |
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| 1928 | W_ALARM_PRES_HIGH_91 |
| 1929 | W_ALARM_PRES_HIGH_92 |
| 1930 | W_ALARM_PRES_HIGH_93 |
| 1931 | W_ALARM_PRES_HIGH_94 |
| 1932 | W_ALARM_PRES_HIGH_95 |
| 1933 | W_ALARM_PRES_HIGH_96 |
| 1934 | W_ALARM_PRES_HIGH_97 |
| 1935 | W_ALARM_PRES_HIGH_98 |

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|---|---|
| 1936 | W_ALARM_PRES_HIGH_99 |
| 1937 | W_ALARM_PRES_HIGH_100 |
| 1938 | EW_ALARM_LOW_TEMP_CIRCUIT_1 |
| 1939 | EW_ALARM_LOW_TEMP_CIRCUIT_2 |
| 1940 | EW_ALARM_LOW_TEMP_CIRCUIT_3 |
| 1941 | EW_ALARM_LOW_TEMP_CIRCUIT_4 |
| 1942 | EW_ALARM_LOW_TEMP_CIRCUIT_5 |
| 1943 | EW_ALARM_LOW_TEMP_CIRCUIT_6 |
| 1944 | EW_ALARM_LOW_TEMP_CIRCUIT_7 |
| 1945 | EW_ALARM_LOW_TEMP_CIRCUIT_8 |
| 1946 | EW_ALARM_LOW_TEMP_CIRCUIT_9 |
| 1947 | EW_ALARM_LOW_TEMP_CIRCUIT_10 |
| 1948 | EW_ALARM_LOW_TEMP_CIRCUIT_11 |
| 1949 | EW_ALARM_LOW_TEMP_CIRCUIT_12 |
| 1950 | EW_ALARM_LOW_TEMP_CIRCUIT_13 |
| 1951 | EW_ALARM_LOW_TEMP_CIRCUIT_14 |
| 1952 | EW_ALARM_LOW_TEMP_CIRCUIT_15 |
| 1953 | EW_ALARM_LOW_TEMP_CIRCUIT_16 |
| 1954 | EW_ALARM_LOW_TEMP_CIRCUIT_17 |
| 1955 | EW_ALARM_LOW_TEMP_CIRCUIT_18 |
| 1956 | EW_ALARM_LOW_TEMP_CIRCUIT_19 |
| 1957 | EW_ALARM_LOW_TEMP_CIRCUIT_20 |
| 1958 | EW_ALARM_LOW_TEMP_CIRCUIT_21 |
| 1959 | EW_ALARM_LOW_TEMP_CIRCUIT_22 |
| 1960 | EW_ALARM_LOW_TEMP_CIRCUIT_23 |
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| 1962 | EW_ALARM_LOW_TEMP_CIRCUIT_25 |
| 1963 | EW_ALARM_LOW_TEMP_CIRCUIT_26 |
| 1964 | EW_ALARM_LOW_TEMP_CIRCUIT_27 |
| 1965 | EW_ALARM_LOW_TEMP_CIRCUIT_28 |
| 1966 | EW_ALARM_LOW_TEMP_CIRCUIT_29 |
| 1967 | EW_ALARM_LOW_TEMP_CIRCUIT_30 |
| 1968 | EW_ALARM_LOW_TEMP_CIRCUIT_31 |
| 1969 | EW_ALARM_LOW_TEMP_CIRCUIT_32 |
| 1970 | EW_ALARM_LOW_TEMP_CIRCUIT_33 |
| 1971 | EW_ALARM_LOW_TEMP_CIRCUIT_34 |
| 1972 | EW_ALARM_LOW_TEMP_CIRCUIT_35 |
| 1973 | EW_ALARM_LOW_TEMP_CIRCUIT_36 |
| 1974 | EW_ALARM_LOW_TEMP_CIRCUIT_37 |
| 1975 | EW_ALARM_LOW_TEMP_CIRCUIT_38 |
| 1976 | EW_ALARM_LOW_TEMP_CIRCUIT_39 |
| 1977 | EW_ALARM_LOW_TEMP_CIRCUIT_40 |
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| 1979 | EW_ALARM_LOW_TEMP_CIRCUIT_42 |
| 1980 | EW_ALARM_LOW_TEMP_CIRCUIT_43 |
| 1981 | EW_ALARM_LOW_TEMP_CIRCUIT_44 |
| 1982 | EW_ALARM_LOW_TEMP_CIRCUIT_45 |
| 1983 | EW_ALARM_LOW_TEMP_CIRCUIT_46 |
| 1984 | EW_ALARM_LOW_TEMP_CIRCUIT_47 |
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| 1998 | EW_ALARM_LOW_TEMP_CIRCUIT_61 |
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| 2000 | EW_ALARM_LOW_TEMP_CIRCUIT_63 |
| 2001 | EW_ALARM_LOW_TEMP_CIRCUIT_64 |
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| 2004 | EW_ALARM_LOW_TEMP_CIRCUIT_67 |
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| 2007 | EW_ALARM_LOW_TEMP_CIRCUIT_70 |
| 2008 | EW_ALARM_LOW_TEMP_CIRCUIT_71 |
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| 2012 | EW_ALARM_LOW_TEMP_CIRCUIT_75 |
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| 2014 | EW_ALARM_LOW_TEMP_CIRCUIT_77 |
| 2015 | EW_ALARM_LOW_TEMP_CIRCUIT_78 |
| 2016 | EW_ALARM_LOW_TEMP_CIRCUIT_79 |
| 2017 | EW_ALARM_LOW_TEMP_CIRCUIT_80 |
| 2018 | EW_ALARM_LOW_TEMP_CIRCUIT_81 |
| 2019 | EW_ALARM_LOW_TEMP_CIRCUIT_82 |
| 2020 | EW_ALARM_LOW_TEMP_CIRCUIT_83 |
| 2021 | EW_ALARM_LOW_TEMP_CIRCUIT_84 |
| 2022 | EW_ALARM_LOW_TEMP_CIRCUIT_85 |
| 2023 | EW_ALARM_LOW_TEMP_CIRCUIT_86 |
| 2024 | EW_ALARM_LOW_TEMP_CIRCUIT_87 |
| 2025 | EW_ALARM_LOW_TEMP_CIRCUIT_88 |
| 2026 | EW_ALARM_LOW_TEMP_CIRCUIT_89 |
| 2027 | EW_ALARM_LOW_TEMP_CIRCUIT_90 |
| 2028 | EW_ALARM_LOW_TEMP_CIRCUIT_91 |
| 2029 | EW_ALARM_LOW_TEMP_CIRCUIT_92 |
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| 2031 | EW_ALARM_LOW_TEMP_CIRCUIT_94 |
| 2032 | EW_ALARM_LOW_TEMP_CIRCUIT_95 |
| 2033 | EW_ALARM_LOW_TEMP_CIRCUIT_96 |
| 2034 | EW_ALARM_LOW_TEMP_CIRCUIT_97 |
| 2035 | EW_ALARM_LOW_TEMP_CIRCUIT_98 |
| 2036 | EW_ALARM_LOW_TEMP_CIRCUIT_99 |
| 2037 | EW_ALARM_LOW_TEMP_CIRCUIT_100 |
| 2038 | EW_ALARM_REMOTE_ON_OFF |
| 2039 | EW_ALARM_MAX_PRES_CIRC_1 |
| 2040 | EW_ALARM_MAX_PRES_CIRC_2 |
| 2041 | EW_ALARM_MAX_PRES_CIRC_3 |
| 2042 | EW_ALARM_MAX_PRES_CIRC_4 |
| 2043 | EW_ALARM_MAX_PRES_CIRC_5 |

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|---|---|
| 2044 | EW_ALARM_MAX_PRES_CIRC_6 |
| 2045 | EW_ALARM_MAX_PRES_CIRC_7 |
| 2046 | EW_ALARM_MAX_PRES_CIRC_8 |
| 2047 | EW_ALARM_MAX_PRES_CIRC_9 |
| 2048 | EW_ALARM_MAX_PRES_CIRC_10 |
| 2049 | EW_ALARM_MAX_PRES_CIRC_11 |
| 2050 | EW_ALARM_MAX_PRES_CIRC_12 |
| 2051 | EW_ALARM_MAX_PRES_CIRC_13 |
| 2052 | EW_ALARM_MAX_PRES_CIRC_14 |
| 2053 | EW_ALARM_MAX_PRES_CIRC_15 |
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| 2055 | EW_ALARM_MAX_PRES_CIRC_17 |
| 2056 | EW_ALARM_MAX_PRES_CIRC_18 |
| 2057 | EW_ALARM_MAX_PRES_CIRC_19 |
| 2058 | EW_ALARM_MAX_PRES_CIRC_20 |
| 2059 | EW_ALARM_MAX_PRES_CIRC_21 |
| 2060 | EW_ALARM_MAX_PRES_CIRC_22 |
| 2061 | EW_ALARM_MAX_PRES_CIRC_23 |
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| 2072 | EW_ALARM_MAX_PRES_CIRC_34 |
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| 2077 | EW_ALARM_MAX_PRES_CIRC_39 |
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| 2080 | EW_ALARM_MAX_PRES_CIRC_42 |
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| 2082 | EW_ALARM_MAX_PRES_CIRC_44 |
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| 2084 | EW_ALARM_MAX_PRES_CIRC_46 |
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| 2101 | EW_ALARM_MAX_PRES_CIRC_63 |
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| 2107 | EW_ALARM_MAX_PRES_CIRC_69 |
| 2108 | EW_ALARM_MAX_PRES_CIRC_70 |
| 2109 | EW_ALARM_MAX_PRES_CIRC_71 |
| 2110 | EW_ALARM_MAX_PRES_CIRC_72 |
| 2111 | EW_ALARM_MAX_PRES_CIRC_73 |
| 2112 | EW_ALARM_MAX_PRES_CIRC_74 |
| 2113 | EW_ALARM_MAX_PRES_CIRC_75 |
| 2114 | EW_ALARM_MAX_PRES_CIRC_76 |
| 2115 | EW_ALARM_MAX_PRES_CIRC_77 |
| 2116 | EW_ALARM_MAX_PRES_CIRC_78 |
| 2117 | EW_ALARM_MAX_PRES_CIRC_79 |
| 2118 | EW_ALARM_MAX_PRES_CIRC_80 |
| 2119 | EW_ALARM_MAX_PRES_CIRC_81 |
| 2120 | EW_ALARM_MAX_PRES_CIRC_82 |
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| 2124 | EW_ALARM_MAX_PRES_CIRC_86 |
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| 2135 | EW_ALARM_MAX_PRES_CIRC_97 |
| 2136 | EW_ALARM_MAX_PRES_CIRC_98 |
| 2137 | EW_ALARM_MAX_PRES_CIRC_99 |
| 2138 | EW_ALARM_MAX_PRES_CIRC_100 |
| 2139 | EW_ALARM_MAX_PRES_DI_CIRC_1 |
| 2140 | EW_ALARM_MAX_PRES_DI_CIRC_2 |
| 2141 | EW_ALARM_MAX_PRES_DI_CIRC_3 |
| 2142 | EW_ALARM_MAX_PRES_DI_CIRC_4 |
| 2143 | EW_ALARM_MAX_PRES_DI_CIRC_5 |
| 2144 | EW_ALARM_MAX_PRES_DI_CIRC_6 |
| 2145 | EW_ALARM_MAX_PRES_DI_CIRC_7 |
| 2146 | EW_ALARM_MAX_PRES_DI_CIRC_8 |
| 2147 | EW_ALARM_MAX_PRES_DI_CIRC_9 |
| 2148 | EW_ALARM_MAX_PRES_DI_CIRC_10 |
| 2149 | EW_ALARM_MAX_PRES_DI_CIRC_11 |
| 2150 | EW_ALARM_MAX_PRES_DI_CIRC_12 |
| 2151 | EW_ALARM_MAX_PRES_DI_CIRC_13 |

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| 2152 | EW_ALARM_MAX_PRES_DI_CIRC_14 |
| 2153 | EW_ALARM_MAX_PRES_DI_CIRC_15 |
| 2154 | EW_ALARM_MAX_PRES_DI_CIRC_16 |
| 2155 | EW_ALARM_MAX_PRES_DI_CIRC_17 |
| 2156 | EW_ALARM_MAX_PRES_DI_CIRC_18 |
| 2157 | EW_ALARM_MAX_PRES_DI_CIRC_19 |
| 2158 | EW_ALARM_MAX_PRES_DI_CIRC_20 |
| 2159 | EW_ALARM_MAX_PRES_DI_CIRC_21 |
| 2160 | EW_ALARM_MAX_PRES_DI_CIRC_22 |
| 2161 | EW_ALARM_MAX_PRES_DI_CIRC_23 |
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| 2257 | EW_ALARM_MIN_PRES_CIRC_19 |
| 2258 | EW_ALARM_MIN_PRES_CIRC_20 |
| 2259 | EW_ALARM_MIN_PRES_CIRC_21 |

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| 2260 | EW_ALARM_MIN_PRES_CIRC_22 |
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| 2264 | EW_ALARM_MIN_PRES_CIRC_26 |
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| 2283 | EW_ALARM_MIN_PRES_CIRC_45 |
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| 2294 | EW_ALARM_MIN_PRES_CIRC_56 |
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| 2363 | EW_ALARM_MIN_PRES_DI_CIRC_25 |
| 2364 | EW_ALARM_MIN_PRES_DI_CIRC_26 |
| 2365 | EW_ALARM_MIN_PRES_DI_CIRC_27 |
| 2366 | EW_ALARM_MIN_PRES_DI_CIRC_28 |
| 2367 | EW_ALARM_MIN_PRES_DI_CIRC_29 |

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| 2373 | EW_ALARM_MIN_PRES_DI_CIRC_35 |
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| 2378 | EW_ALARM_MIN_PRES_DI_CIRC_40 |
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| 2382 | EW_ALARM_MIN_PRES_DI_CIRC_44 |
| 2383 | EW_ALARM_MIN_PRES_DI_CIRC_45 |
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| 2438 | EW_ALARM_MIN_PRES_DI_CIRC_100 |
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| 2440 | EW_ALARM_DEFROST_CIRC_2 |
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| 2442 | EW_ALARM_DEFROST_CIRC_4 |
| 2443 | EW_ALARM_DEFROST_CIRC_5 |
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| 2445 | EW_ALARM_DEFROST_CIRC_7 |
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| 2447 | EW_ALARM_DEFROST_CIRC_9 |
| 2448 | EW_ALARM_DEFROST_CIRC_10 |
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| 2458 | EW_ALARM_DEFROST_CIRC_20 |
| 2459 | EW_ALARM_DEFROST_CIRC_21 |
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| 2473 | EW_ALARM_DEFROST_CIRC_35 |
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| 2475 | EW_ALARM_DEFROST_CIRC_37 |

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| 2478 | EW_ALARM_DEFROST_CIRC_40 |
| 2479 | EW_ALARM_DEFROST_CIRC_41 |
| 2480 | EW_ALARM_DEFROST_CIRC_42 |
| 2481 | EW_ALARM_DEFROST_CIRC_43 |
| 2482 | EW_ALARM_DEFROST_CIRC_44 |
| 2483 | EW_ALARM_DEFROST_CIRC_45 |
| 2484 | EW_ALARM_DEFROST_CIRC_46 |
| 2485 | EW_ALARM_DEFROST_CIRC_47 |
| 2486 | EW_ALARM_DEFROST_CIRC_48 |
| 2487 | EW_ALARM_DEFROST_CIRC_49 |
| 2488 | EW_ALARM_DEFROST_CIRC_50 |
| 2489 | EW_ALARM_DEFROST_CIRC_51 |
| 2490 | EW_ALARM_DEFROST_CIRC_52 |
| 2491 | EW_ALARM_DEFROST_CIRC_53 |
| 2492 | EW_ALARM_DEFROST_CIRC_54 |
| 2493 | EW_ALARM_DEFROST_CIRC_55 |
| 2494 | EW_ALARM_DEFROST_CIRC_56 |
| 2495 | EW_ALARM_DEFROST_CIRC_57 |
| 2496 | EW_ALARM_DEFROST_CIRC_58 |
| 2497 | EW_ALARM_DEFROST_CIRC_59 |
| 2498 | EW_ALARM_DEFROST_CIRC_60 |
| 2499 | EW_ALARM_DEFROST_CIRC_61 |
| 2500 | EW_ALARM_DEFROST_CIRC_62 |
| 2501 | EW_ALARM_DEFROST_CIRC_63 |
| 2502 | EW_ALARM_DEFROST_CIRC_64 |
| 2503 | EW_ALARM_DEFROST_CIRC_65 |
| 2504 | EW_ALARM_DEFROST_CIRC_66 |
| 2505 | EW_ALARM_DEFROST_CIRC_67 |
| 2506 | EW_ALARM_DEFROST_CIRC_68 |
| 2507 | EW_ALARM_DEFROST_CIRC_69 |
| 2508 | EW_ALARM_DEFROST_CIRC_70 |
| 2509 | EW_ALARM_DEFROST_CIRC_71 |
| 2510 | EW_ALARM_DEFROST_CIRC_72 |
| 2511 | EW_ALARM_DEFROST_CIRC_73 |
| 2512 | EW_ALARM_DEFROST_CIRC_74 |
| 2513 | EW_ALARM_DEFROST_CIRC_75 |
| 2514 | EW_ALARM_DEFROST_CIRC_76 |
| 2515 | EW_ALARM_DEFROST_CIRC_77 |
| 2516 | EW_ALARM_DEFROST_CIRC_78 |
| 2517 | EW_ALARM_DEFROST_CIRC_79 |
| 2518 | EW_ALARM_DEFROST_CIRC_80 |
| 2519 | EW_ALARM_DEFROST_CIRC_81 |
| 2520 | EW_ALARM_DEFROST_CIRC_82 |
| 2521 | EW_ALARM_DEFROST_CIRC_83 |
| 2522 | EW_ALARM_DEFROST_CIRC_84 |
| 2523 | EW_ALARM_DEFROST_CIRC_85 |
| 2524 | EW_ALARM_DEFROST_CIRC_86 |
| 2525 | EW_ALARM_DEFROST_CIRC_87 |
| 2526 | EW_ALARM_DEFROST_CIRC_88 |
| 2527 | EW_ALARM_DEFROST_CIRC_89 |
| 2528 | EW_ALARM_DEFROST_CIRC_90 |
| 2529 | EW_ALARM_DEFROST_CIRC_91 |
| 2530 | EW_ALARM_DEFROST_CIRC_92 |
| 2531 | EW_ALARM_DEFROST_CIRC_93 |
| 2532 | EW_ALARM_DEFROST_CIRC_94 |
| 2533 | EW_ALARM_DEFROST_CIRC_95 |
| 2534 | EW_ALARM_DEFROST_CIRC_96 |
| 2535 | EW_ALARM_DEFROST_CIRC_97 |
| 2536 | EW_ALARM_DEFROST_CIRC_98 |
| 2537 | EW_ALARM_DEFROST_CIRC_99 |
| 2538 | EW_ALARM_DEFROST_CIRC_100 |
| 2539 | EW_ALARM_HIGH_IN_TEMP |
| 2540 | EW_ALARM_EXT_UNLOCK |
| 2541 | EW_ALARM_EXT_LOCK |

# B. State codes

| ID | DESCRIPTION |
|---|---|
| 0 | EW_STATE_FAN_1 |
| 1 | EW_STATE_FAN_2 |
| 2 | EW_STATE_FAN_3 |
| 3 | EW_STATE_FAN_4 |
| 4 | EW_STATE_FAN_5 |
| 5 | EW_STATE_FAN_6 |
| 6 | EW_STATE_FAN_7 |
| 7 | EW_STATE_FAN_8 |
| 8 | EW_STATE_FAN_9 |
| 9 | EW_STATE_FAN_10 |
| 10 | EW_STATE_FAN_11 |
| 11 | EW_STATE_FAN_12 |
| 12 | EW_STATE_FAN_13 |
| 13 | EW_STATE_FAN_14 |
| 14 | EW_STATE_FAN_15 |
| 15 | EW_STATE_FAN_16 |
| 16 | EW_STATE_FAN_17 |
| 17 | EW_STATE_FAN_18 |
| 18 | EW_STATE_FAN_19 |
| 19 | EW_STATE_FAN_20 |
| 20 | EW_STATE_FAN_21 |
| 21 | EW_STATE_FAN_22 |
| 22 | EW_STATE_FAN_23 |
| 23 | EW_STATE_FAN_24 |
| 24 | EW_STATE_FAN_25 |
| 25 | EW_STATE_FAN_26 |
| 26 | EW_STATE_FAN_27 |
| 27 | EW_STATE_FAN_28 |
| 28 | EW_STATE_FAN_29 |
| 29 | EW_STATE_FAN_30 |
| 30 | EW_STATE_FAN_31 |
| 31 | EW_STATE_FAN_32 |
| 32 | EW_STATE_FAN_33 |
| 33 | EW_STATE_FAN_34 |
| 34 | EW_STATE_FAN_35 |
| 35 | EW_STATE_FAN_36 |
| 36 | EW_STATE_FAN_37 |
| 37 | EW_STATE_FAN_38 |
| 38 | EW_STATE_FAN_39 |
| 39 | EW_STATE_FAN_40 |
| 40 | EW_STATE_FAN_41 |
| 41 | EW_STATE_FAN_42 |
| 42 | EW_STATE_FAN_43 |
| 43 | EW_STATE_FAN_44 |
| 44 | EW_STATE_FAN_45 |
| 45 | EW_STATE_FAN_46 |
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| 90 | EW_STATE_FAN_91 |
| 91 | EW_STATE_FAN_92 |
| 92 | EW_STATE_FAN_93 |
| 93 | EW_STATE_FAN_94 |
| 94 | EW_STATE_FAN_95 |
| 95 | EW_STATE_FAN_96 |
| 96 | EW_STATE_FAN_97 |

| | |
|---|---|
| 97 | EW_STATE_FAN_98 |
| 98 | EW_STATE_FAN_99 |
| 99 | EW_STATE_FAN_100 |
| 100 | EW_STATE_COMPRESSOR_1 |
| 101 | EW_STATE_COMPRESSOR_2 |
| 102 | EW_STATE_COMPRESSOR_3 |
| 103 | EW_STATE_COMPRESSOR_4 |
| 104 | EW_STATE_COMPRESSOR_5 |
| 105 | EW_STATE_COMPRESSOR_6 |
| 106 | EW_STATE_COMPRESSOR_7 |
| 107 | EW_STATE_COMPRESSOR_8 |
| 108 | EW_STATE_COMPRESSOR_9 |
| 109 | EW_STATE_COMPRESSOR_10 |
| 110 | EW_STATE_COMPRESSOR_11 |
| 111 | EW_STATE_COMPRESSOR_12 |
| 112 | EW_STATE_COMPRESSOR_13 |
| 113 | EW_STATE_COMPRESSOR_14 |
| 114 | EW_STATE_COMPRESSOR_15 |
| 115 | EW_STATE_COMPRESSOR_16 |
| 116 | EW_STATE_COMPRESSOR_17 |
| 117 | EW_STATE_COMPRESSOR_18 |
| 118 | EW_STATE_COMPRESSOR_19 |
| 119 | EW_STATE_COMPRESSOR_20 |
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| 121 | EW_STATE_COMPRESSOR_22 |
| 122 | EW_STATE_COMPRESSOR_23 |
| 123 | EW_STATE_COMPRESSOR_24 |
| 124 | EW_STATE_COMPRESSOR_25 |
| 125 | EW_STATE_COMPRESSOR_26 |
| 126 | EW_STATE_COMPRESSOR_27 |
| 127 | EW_STATE_COMPRESSOR_28 |
| 128 | EW_STATE_COMPRESSOR_29 |
| 129 | EW_STATE_COMPRESSOR_30 |
| 130 | EW_STATE_COMPRESSOR_31 |
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| 132 | EW_STATE_COMPRESSOR_33 |
| 133 | EW_STATE_COMPRESSOR_34 |
| 134 | EW_STATE_COMPRESSOR_35 |
| 135 | EW_STATE_COMPRESSOR_36 |
| 136 | EW_STATE_COMPRESSOR_37 |
| 137 | EW_STATE_COMPRESSOR_38 |
| 138 | EW_STATE_COMPRESSOR_39 |
| 139 | EW_STATE_COMPRESSOR_40 |
| 140 | EW_STATE_COMPRESSOR_41 |
| 141 | EW_STATE_COMPRESSOR_42 |
| 142 | EW_STATE_COMPRESSOR_43 |
| 143 | EW_STATE_COMPRESSOR_44 |
| 144 | EW_STATE_COMPRESSOR_45 |
| 145 | EW_STATE_COMPRESSOR_46 |
| 146 | EW_STATE_COMPRESSOR_47 |
| 147 | EW_STATE_COMPRESSOR_48 |
| 148 | EW_STATE_COMPRESSOR_49 |
| 149 | EW_STATE_COMPRESSOR_50 |
| 150 | EW_STATE_COMPRESSOR_51 |
| 151 | EW_STATE_COMPRESSOR_52 |
| 152 | EW_STATE_COMPRESSOR_53 |
| 153 | EW_STATE_COMPRESSOR_54 |
| 154 | EW_STATE_COMPRESSOR_55 |
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| 156 | EW_STATE_COMPRESSOR_57 |
| 157 | EW_STATE_COMPRESSOR_58 |
| 158 | EW_STATE_COMPRESSOR_59 |
| 159 | EW_STATE_COMPRESSOR_60 |
| 160 | EW_STATE_COMPRESSOR_61 |
| 161 | EW_STATE_COMPRESSOR_62 |
| 162 | EW_STATE_COMPRESSOR_63 |
| 163 | EW_STATE_COMPRESSOR_64 |
| 164 | EW_STATE_COMPRESSOR_65 |
| 165 | EW_STATE_COMPRESSOR_66 |
| 166 | EW_STATE_COMPRESSOR_67 |
| 167 | EW_STATE_COMPRESSOR_68 |
| 168 | EW_STATE_COMPRESSOR_69 |
| 169 | EW_STATE_COMPRESSOR_70 |
| 170 | EW_STATE_COMPRESSOR_71 |
| 171 | EW_STATE_COMPRESSOR_72 |
| 172 | EW_STATE_COMPRESSOR_73 |
| 173 | EW_STATE_COMPRESSOR_74 |
| 174 | EW_STATE_COMPRESSOR_75 |
| 175 | EW_STATE_COMPRESSOR_76 |
| 176 | EW_STATE_COMPRESSOR_77 |
| 177 | EW_STATE_COMPRESSOR_78 |
| 178 | EW_STATE_COMPRESSOR_79 |
| 179 | EW_STATE_COMPRESSOR_80 |
| 180 | EW_STATE_COMPRESSOR_81 |
| 181 | EW_STATE_COMPRESSOR_82 |
| 182 | EW_STATE_COMPRESSOR_83 |
| 183 | EW_STATE_COMPRESSOR_84 |
| 184 | EW_STATE_COMPRESSOR_85 |
| 185 | EW_STATE_COMPRESSOR_86 |
| 186 | EW_STATE_COMPRESSOR_87 |
| 187 | EW_STATE_COMPRESSOR_88 |
| 188 | EW_STATE_COMPRESSOR_89 |
| 189 | EW_STATE_COMPRESSOR_90 |
| 190 | EW_STATE_COMPRESSOR_91 |
| 191 | EW_STATE_COMPRESSOR_92 |
| 192 | EW_STATE_COMPRESSOR_93 |
| 193 | EW_STATE_COMPRESSOR_94 |
| 194 | EW_STATE_COMPRESSOR_95 |
| 195 | EW_STATE_COMPRESSOR_96 |
| 196 | EW_STATE_COMPRESSOR_97 |
| 197 | EW_STATE_COMPRESSOR_98 |
| 198 | EW_STATE_COMPRESSOR_99 |
| 199 | EW_STATE_COMPRESSOR_100 |
| 200 | EW_STATE_DEFROST_1 |

| | |
|---|---|
| 201 EW_STATE_DEFROST_2 | 253 EW_STATE_DEFROST_54 |
| 202 EW_STATE_DEFROST_3 | 254 EW_STATE_DEFROST_55 |
| 203 EW_STATE_DEFROST_4 | 255 EW_STATE_DEFROST_56 |
| 204 EW_STATE_DEFROST_5 | 256 EW_STATE_DEFROST_57 |
| 205 EW_STATE_DEFROST_6 | 257 EW_STATE_DEFROST_58 |
| 206 EW_STATE_DEFROST_7 | 258 EW_STATE_DEFROST_59 |
| 207 EW_STATE_DEFROST_8 | 259 EW_STATE_DEFROST_60 |
| 208 EW_STATE_DEFROST_9 | 260 EW_STATE_DEFROST_61 |
| 209 EW_STATE_DEFROST_10 | 261 EW_STATE_DEFROST_62 |
| 210 EW_STATE_DEFROST_11 | 262 EW_STATE_DEFROST_63 |
| 211 EW_STATE_DEFROST_12 | 263 EW_STATE_DEFROST_64 |
| 212 EW_STATE_DEFROST_13 | 264 EW_STATE_DEFROST_65 |
| 213 EW_STATE_DEFROST_14 | 265 EW_STATE_DEFROST_66 |
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| 215 EW_STATE_DEFROST_16 | 267 EW_STATE_DEFROST_68 |
| 216 EW_STATE_DEFROST_17 | 268 EW_STATE_DEFROST_69 |
| 217 EW_STATE_DEFROST_18 | 269 EW_STATE_DEFROST_70 |
| 218 EW_STATE_DEFROST_19 | 270 EW_STATE_DEFROST_71 |
| 219 EW_STATE_DEFROST_20 | 271 EW_STATE_DEFROST_72 |
| 220 EW_STATE_DEFROST_21 | 272 EW_STATE_DEFROST_73 |
| 221 EW_STATE_DEFROST_22 | 273 EW_STATE_DEFROST_74 |
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| 224 EW_STATE_DEFROST_25 | 276 EW_STATE_DEFROST_77 |
| 225 EW_STATE_DEFROST_26 | 277 EW_STATE_DEFROST_78 |
| 226 EW_STATE_DEFROST_27 | 278 EW_STATE_DEFROST_79 |
| 227 EW_STATE_DEFROST_28 | 279 EW_STATE_DEFROST_80 |
| 228 EW_STATE_DEFROST_29 | 280 EW_STATE_DEFROST_81 |
| 229 EW_STATE_DEFROST_30 | 281 EW_STATE_DEFROST_82 |
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| 231 EW_STATE_DEFROST_32 | 283 EW_STATE_DEFROST_84 |
| 232 EW_STATE_DEFROST_33 | 284 EW_STATE_DEFROST_85 |
| 233 EW_STATE_DEFROST_34 | 285 EW_STATE_DEFROST_86 |
| 234 EW_STATE_DEFROST_35 | 286 EW_STATE_DEFROST_87 |
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| 236 EW_STATE_DEFROST_37 | 288 EW_STATE_DEFROST_89 |
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| 239 EW_STATE_DEFROST_40 | 291 EW_STATE_DEFROST_92 |
| 240 EW_STATE_DEFROST_41 | 292 EW_STATE_DEFROST_93 |
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| 242 EW_STATE_DEFROST_43 | 294 EW_STATE_DEFROST_95 |
| 243 EW_STATE_DEFROST_44 | 295 EW_STATE_DEFROST_96 |
| 244 EW_STATE_DEFROST_45 | 296 EW_STATE_DEFROST_97 |
| 245 EW_STATE_DEFROST_46 | 297 EW_STATE_DEFROST_98 |
| 246 EW_STATE_DEFROST_47 | 298 EW_STATE_DEFROST_99 |
| 247 EW_STATE_DEFROST_48 | 299 EW_STATE_DEFROST_100 |
| 248 EW_STATE_DEFROST_49 | 300 EW_STATE_EVAPORATOR_1 |
| 249 EW_STATE_DEFROST_50 | 301 EW_STATE_EVAPORATOR_2 |
| 250 EW_STATE_DEFROST_51 | 302 EW_STATE_EVAPORATOR_3 |
| 251 EW_STATE_DEFROST_52 | 303 EW_STATE_EVAPORATOR_4 |
| 252 EW_STATE_DEFROST_53 | 304 EW_STATE_EVAPORATOR_5 |

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|---|---|
| 305 EW_STATE_EVAPORATOR_6 | 357 EW_STATE_EVAPORATOR_58 |
| 306 EW_STATE_EVAPORATOR_7 | 358 EW_STATE_EVAPORATOR_59 |
| 307 EW_STATE_EVAPORATOR_8 | 359 EW_STATE_EVAPORATOR_60 |
| 308 EW_STATE_EVAPORATOR_9 | 360 EW_STATE_EVAPORATOR_61 |
| 309 EW_STATE_EVAPORATOR_10 | 361 EW_STATE_EVAPORATOR_62 |
| 310 EW_STATE_EVAPORATOR_11 | 362 EW_STATE_EVAPORATOR_63 |
| 311 EW_STATE_EVAPORATOR_12 | 363 EW_STATE_EVAPORATOR_64 |
| 312 EW_STATE_EVAPORATOR_13 | 364 EW_STATE_EVAPORATOR_65 |
| 313 EW_STATE_EVAPORATOR_14 | 365 EW_STATE_EVAPORATOR_66 |
| 314 EW_STATE_EVAPORATOR_15 | 366 EW_STATE_EVAPORATOR_67 |
| 315 EW_STATE_EVAPORATOR_16 | 367 EW_STATE_EVAPORATOR_68 |
| 316 EW_STATE_EVAPORATOR_17 | 368 EW_STATE_EVAPORATOR_69 |
| 317 EW_STATE_EVAPORATOR_18 | 369 EW_STATE_EVAPORATOR_70 |
| 318 EW_STATE_EVAPORATOR_19 | 370 EW_STATE_EVAPORATOR_71 |
| 319 EW_STATE_EVAPORATOR_20 | 371 EW_STATE_EVAPORATOR_72 |
| 320 EW_STATE_EVAPORATOR_21 | 372 EW_STATE_EVAPORATOR_73 |
| 321 EW_STATE_EVAPORATOR_22 | 373 EW_STATE_EVAPORATOR_74 |
| 322 EW_STATE_EVAPORATOR_23 | 374 EW_STATE_EVAPORATOR_75 |
| 323 EW_STATE_EVAPORATOR_24 | 375 EW_STATE_EVAPORATOR_76 |
| 324 EW_STATE_EVAPORATOR_25 | 376 EW_STATE_EVAPORATOR_77 |
| 325 EW_STATE_EVAPORATOR_26 | 377 EW_STATE_EVAPORATOR_78 |
| 326 EW_STATE_EVAPORATOR_27 | 378 EW_STATE_EVAPORATOR_79 |
| 327 EW_STATE_EVAPORATOR_28 | 379 EW_STATE_EVAPORATOR_80 |
| 328 EW_STATE_EVAPORATOR_29 | 380 EW_STATE_EVAPORATOR_81 |
| 329 EW_STATE_EVAPORATOR_30 | 381 EW_STATE_EVAPORATOR_82 |
| 330 EW_STATE_EVAPORATOR_31 | 382 EW_STATE_EVAPORATOR_83 |
| 331 EW_STATE_EVAPORATOR_32 | 383 EW_STATE_EVAPORATOR_84 |
| 332 EW_STATE_EVAPORATOR_33 | 384 EW_STATE_EVAPORATOR_85 |
| 333 EW_STATE_EVAPORATOR_34 | 385 EW_STATE_EVAPORATOR_86 |
| 334 EW_STATE_EVAPORATOR_35 | 386 EW_STATE_EVAPORATOR_87 |
| 335 EW_STATE_EVAPORATOR_36 | 387 EW_STATE_EVAPORATOR_88 |
| 336 EW_STATE_EVAPORATOR_37 | 388 EW_STATE_EVAPORATOR_89 |
| 337 EW_STATE_EVAPORATOR_38 | 389 EW_STATE_EVAPORATOR_90 |
| 338 EW_STATE_EVAPORATOR_39 | 390 EW_STATE_EVAPORATOR_91 |
| 339 EW_STATE_EVAPORATOR_40 | 391 EW_STATE_EVAPORATOR_92 |
| 340 EW_STATE_EVAPORATOR_41 | 392 EW_STATE_EVAPORATOR_93 |
| 341 EW_STATE_EVAPORATOR_42 | 393 EW_STATE_EVAPORATOR_94 |
| 342 EW_STATE_EVAPORATOR_43 | 394 EW_STATE_EVAPORATOR_95 |
| 343 EW_STATE_EVAPORATOR_44 | 395 EW_STATE_EVAPORATOR_96 |
| 344 EW_STATE_EVAPORATOR_45 | 396 EW_STATE_EVAPORATOR_97 |
| 345 EW_STATE_EVAPORATOR_46 | 397 EW_STATE_EVAPORATOR_98 |
| 346 EW_STATE_EVAPORATOR_47 | 398 EW_STATE_EVAPORATOR_99 |
| 347 EW_STATE_EVAPORATOR_48 | 399 EW_STATE_EVAPORATOR_100 |
| 348 EW_STATE_EVAPORATOR_49 | 400 EW_STATE_EVAPORATOR_1 |
| 349 EW_STATE_EVAPORATOR_50 | 401 EW_STATE_EVAPORATOR_2 |
| 350 EW_STATE_EVAPORATOR_51 | 402 EW_STATE_EVAPORATOR_3 |
| 351 EW_STATE_EVAPORATOR_52 | 403 EW_STATE_EVAPORATOR_4 |
| 352 EW_STATE_EVAPORATOR_53 | 404 EW_STATE_EVAPORATOR_5 |
| 353 EW_STATE_EVAPORATOR_54 | 405 EW_STATE_EVAPORATOR_6 |
| 354 EW_STATE_EVAPORATOR_55 | 406 EW_STATE_EVAPORATOR_7 |
| 355 EW_STATE_EVAPORATOR_56 | 407 EW_STATE_EVAPORATOR_8 |
| 356 EW_STATE_EVAPORATOR_57 | 408 EW_STATE_EVAPORATOR_9 |

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|---|---|
| 409 | EW_STATE_EVAPORATOR_10 |
| 410 | EW_STATE_EVAPORATOR_11 |
| 411 | EW_STATE_EVAPORATOR_12 |
| 412 | EW_STATE_EVAPORATOR_13 |
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| 417 | EW_STATE_EVAPORATOR_18 |
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| 426 | EW_STATE_EVAPORATOR_27 |
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| 428 | EW_STATE_EVAPORATOR_29 |
| 429 | EW_STATE_EVAPORATOR_30 |
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| 431 | EW_STATE_EVAPORATOR_32 |
| 432 | EW_STATE_EVAPORATOR_33 |
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| 446 | EW_STATE_EVAPORATOR_47 |
| 447 | EW_STATE_EVAPORATOR_48 |
| 448 | EW_STATE_EVAPORATOR_49 |
| 449 | EW_STATE_EVAPORATOR_50 |
| 450 | EW_STATE_EVAPORATOR_51 |
| 451 | EW_STATE_EVAPORATOR_52 |
| 452 | EW_STATE_EVAPORATOR_53 |
| 453 | EW_STATE_EVAPORATOR_54 |
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| 456 | EW_STATE_EVAPORATOR_57 |
| 457 | EW_STATE_EVAPORATOR_58 |
| 458 | EW_STATE_EVAPORATOR_59 |
| 459 | EW_STATE_EVAPORATOR_60 |
| 460 | EW_STATE_EVAPORATOR_61 |
| 461 | EW_STATE_EVAPORATOR_62 |
| 462 | EW_STATE_EVAPORATOR_63 |
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| 466 | EW_STATE_EVAPORATOR_67 |
| 467 | EW_STATE_EVAPORATOR_68 |
| 468 | EW_STATE_EVAPORATOR_69 |
| 469 | EW_STATE_EVAPORATOR_70 |
| 470 | EW_STATE_EVAPORATOR_71 |
| 471 | EW_STATE_EVAPORATOR_72 |
| 472 | EW_STATE_EVAPORATOR_73 |
| 473 | EW_STATE_EVAPORATOR_74 |
| 474 | EW_STATE_EVAPORATOR_75 |
| 475 | EW_STATE_EVAPORATOR_76 |
| 476 | EW_STATE_EVAPORATOR_77 |
| 477 | EW_STATE_EVAPORATOR_78 |
| 478 | EW_STATE_EVAPORATOR_79 |
| 479 | EW_STATE_EVAPORATOR_80 |
| 480 | EW_STATE_EVAPORATOR_81 |
| 481 | EW_STATE_EVAPORATOR_82 |
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| 493 | EW_STATE_EVAPORATOR_94 |
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| 497 | EW_STATE_EVAPORATOR_98 |
| 498 | EW_STATE_EVAPORATOR_99 |
| 499 | EW_STATE_EVAPORATOR_100 |
| 500 | EW_STATE_ACTIVE |
| 501 | EW_STATE_ALARM |
| 502 | EW_STATE_MUTE_ALARM |
| 503 | EW_STATE_ON |
| 504 | EW_STATE_LIGHT |
| 505 | EW_STATE_C_CYCLE |
| 506 | EW_STATE_Q_CHILLER |
| 507 | EW_STATE_REDUCED_SET |
| 508 | EW_STATE_MAINTENANCE |
| 509 | EW_STATE_OUT_1 |
| 510 | EW_STATE_OUT_2 |
| 511 | EW_STATE_OUT_3 |
| 512 | EW_STATE_OUT_4 |

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| 607 | EW_STATE_OUT_99 |
| 608 | EW_STATE_OUT_100 |
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| 610 | EW_STATE_COOLING |
| 611 | EW_STATE_HEATING |
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| 613 | EW_STATE_REVERSAL_VALVE_2 |
| 614 | EW_STATE_REVERSAL_VALVE_3 |
| 615 | EW_STATE_REVERSAL_VALVE_4 |
| 616 | EW_STATE_REVERSAL_VALVE_5 |
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| 624 | EW_STATE_REVERSAL_VALVE_13 |
| 625 | EW_STATE_REVERSAL_VALVE_14 |

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| 653 | EW_STATE_REVERSAL_VALVE_42 |
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| 667 | EW_STATE_REVERSAL_VALVE_56 |
| 668 | EW_STATE_REVERSAL_VALVE_57 |
| 669 | EW_STATE_REVERSAL_VALVE_58 |
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| 685 | EW_STATE_REVERSAL_VALVE_74 |
| 686 | EW_STATE_REVERSAL_VALVE_75 |
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| 688 | EW_STATE_REVERSAL_VALVE_77 |
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| 703 | EW_STATE_REVERSAL_VALVE_92 |
| 704 | EW_STATE_REVERSAL_VALVE_93 |
| 705 | EW_STATE_REVERSAL_VALVE_94 |
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| 707 | EW_STATE_REVERSAL_VALVE_96 |
| 708 | EW_STATE_REVERSAL_VALVE_97 |
| 709 | EW_STATE_REVERSAL_VALVE_98 |
| 710 | EW_STATE_REVERSAL_VALVE_99 |
| 711 | EW_STATE_REVERSAL_VALVE_100 |
| 712 | EW_STATE_PUMP_1 |
| 713 | EW_STATE_PUMP_2 |
| 714 | EW_STATE_PUMP_3 |
| 715 | EW_STATE_PUMP_4 |
| 716 | EW_STATE_PUMP_5 |
| 717 | EW_STATE_PUMP_6 |
| 718 | EW_STATE_PUMP_7 |
| 719 | EW_STATE_PUMP_8 |
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| 728 | EW_STATE_PUMP_17 |
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| 734 | EW_STATE_PUMP_23 |
| 735 | EW_STATE_PUMP_24 |
| 736 | EW_STATE_PUMP_25 |
| 737 | EW_STATE_PUMP_26 |
| 738 | EW_STATE_PUMP_27 |
| 739 | EW_STATE_PUMP_28 |

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|---|---|
| 740 | EW_STATE_PUMP_29 |
| 741 | EW_STATE_PUMP_30 |
| 742 | EW_STATE_PUMP_31 |
| 743 | EW_STATE_PUMP_32 |
| 744 | EW_STATE_PUMP_33 |
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| 747 | EW_STATE_PUMP_36 |
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| 769 | EW_STATE_PUMP_58 |
| 770 | EW_STATE_PUMP_59 |
| 771 | EW_STATE_PUMP_60 |
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| 773 | EW_STATE_PUMP_62 |
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| 776 | EW_STATE_PUMP_65 |
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| 778 | EW_STATE_PUMP_67 |
| 779 | EW_STATE_PUMP_68 |
| 780 | EW_STATE_PUMP_69 |
| 781 | EW_STATE_PUMP_70 |
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| 783 | EW_STATE_PUMP_72 |
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| 785 | EW_STATE_PUMP_74 |
| 786 | EW_STATE_PUMP_75 |
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| 793 | EW_STATE_PUMP_82 |
| 794 | EW_STATE_PUMP_83 |
| 795 | EW_STATE_PUMP_84 |
| 796 | EW_STATE_PUMP_85 |
| 797 | EW_STATE_PUMP_86 |
| 798 | EW_STATE_PUMP_87 |
| 799 | EW_STATE_PUMP_88 |
| 800 | EW_STATE_PUMP_89 |
| 801 | EW_STATE_PUMP_90 |
| 802 | EW_STATE_PUMP_91 |
| 803 | EW_STATE_PUMP_92 |
| 804 | EW_STATE_PUMP_93 |
| 805 | EW_STATE_PUMP_94 |
| 806 | EW_STATE_PUMP_95 |
| 807 | EW_STATE_PUMP_96 |
| 808 | EW_STATE_PUMP_97 |
| 809 | EW_STATE_PUMP_98 |
| 810 | EW_STATE_PUMP_99 |
| 811 | EW_STATE_PUMP_100 |
| 812 | EW_STATE_FAN_MODE |
| 813 | EW_STATE_DEFROST_RES |
| 814 | EW_STATE_FREE_COOLING |
| 815 | EW_STATE_MAX_SPEED_FAN |
| 816 | EW_STATE_MED_SPEED_FAN |
| 817 | EW_STATE_MIN_SPEED_FAN |
| 818 | EW_STATE_VALVE_1 |
| 819 | EW_STATE_VALVE_2 |
| 820 | EW_STATE_RESISTORS |
| 821 | EW_STATE_HOT_START |
| 822 | EW_STATE_TOO_COOL |
| 823 | EW_STATE_HEAT |
| 824 | EW_STATE_COOL |
| 825 | EW_STATE_FANS |
| 826 | EW_STATE_ECONOMY_FUNC |
| 827 | EW_STATE_PERIODIC_FAN |
| 828 | EW_STATE_SLIDER_MAX_SPEED_FAN |
| 829 | EW_STATE_SLIDER_MED_SPEED_FAN |
| 830 | EW_STATE_SLIDER_MIN_SPEED_FAN |
| 831 | EW_STATE_SLIDER_AUTO_SPEED_FAN |
| 832 | EW_STATE_TIMER |

# C. System requirements

| | **Minimum** | **Recommended** | **Notes** |
|---|---|---|---|
| **Operative system** | Windows 2000+SP2<br>Windows XP Home+SP1<br>Windows XP Pro+SP1 | Windows 2000+SP2 or later | |
| **CPU** | Pentium 200 Mhz | Pentium > 200Mhz | |
| **HD (free space)** | 10 MB | > 8 GB | |
| **Ram** | 64 MB | 128 MB or more | Memory size depends on number of networks and connected devices. |
| **COM ports** | 1 COM port for each network | 1 COM ports for each network | Independent IRQ for each COM port. |
| **Serial interface RS-23/RS-485** | Eliwell PC**Interface 1100** series<br>Eliwell PC**Interface 2500** series | Eliwell PC**Interface 1110**<br>or Eliwell PC**Interface 2150** | One PC**Interface** for each network |
| Soft**Gate license** | Soft**Gate** license | Soft**Gate** license | One license for each network.<br>In a PC with more than one network it is necessary at least one Soft**Gate** license (for the first network) and a number of Extension licenses for all other networks. |