Plant Status > General

caleffidivele | English ▼

Plant Status

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General Status:

Model: 750450
Controlled Devices: Wired Devices
System clock: 28/09/18 14:55
RTU Firmare Revision: 2.17.39 (16.18)
Web Interface Revision: 2.15.13
Meter database versione: 1.71
Serial Number: SN15240341
Internet connection: Check in progress....wait!
Last Public IP: 83.224.128.5

DATA EASY
WEB SERVER

## Admin User Account Manual

CALEFFI S.P.A.

<u>Pay attention to the following important notes</u>

- <u>Install the system behind a firewall and isolate it from the company Intranet</u>
- <u>For remote access to the device we recommend adopting high security Virtual Private Network (VPN) technology, which is deemed to be the safest method of connecting to the device</u>

CONNECTING TO THE WEB SERVER

PC > DATA EASY direct connection

Use a T568A or T568B Ethernet cable (straight through or crossover) to connect DATA EASY port ETH1 or ETH2, without distinction, to the PC.
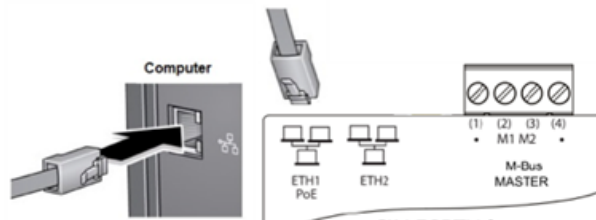

Set up your PC network card to allow communication between the two devices.

To change the PC network card IP address refer to the user manual of the Operating System installed on your PC.

- If using **Windows 10**, right-click on the **Start** > icon at the bottom left of the screen and select **Control panel** > **Network and Sharing Center > Change adapter settings** (in the left-hand menu) and select the **Ethernet** icon; now right-click the mouse and click on **Properties**

- If using **Windows 8**, right-click on the **Start** screen image at the bottom left of the screen and select **Control panel** (in metro-style mode: Right-click the mouse on the Start screen image; an All Apps icon will appear at the bottom of the screen, select Control panel)> **Network and Sharing Center > Change adapter settings** in the left-hand menu and select the **Ethernet** icon, then right-click the mouse and click on **Properties**

- If using **Windows 7**, click on **Start** > **Control panel** > **View network status and tasks** >**Change adapter settings** (in the left sidebar), right-click on **Local area connection (LAN)** and select **Properties** in the menu that appears.

- If using **Windows XP**, go to **Start** >**Control panel** > **Network and internet** > **Network connections**, right-click on **Local area connection (LAN)** and select **Properties** in the menu that appears.

In the window that now opens, scroll through the menu entitled **This connection uses the following items** and double click on **Internet Protocol Version 4 (TCP/IPv4)** to enter computer network properties. Select the **Use the following IP address** box and type the IP address you wish to assign to the computer in the **IP address** box. The IP address must be entered in the format **192.168.1.xxx** where, in place of the xxx, a number must be entered from 1 to 255 (excluding 110).

The **Subnet mask** value is assigned automatically for all PCs with value 255.255.255.0, while the address of the DATA EASY device, i.e. **192.168.1.110** must be typed in the **Default gateway** box. The **Preferred DNS server** and **Alternate DNS server** boxes should be left blank. When the configuration procedure is concluded, first click on **Apply** and then on **OK** to save the settings.
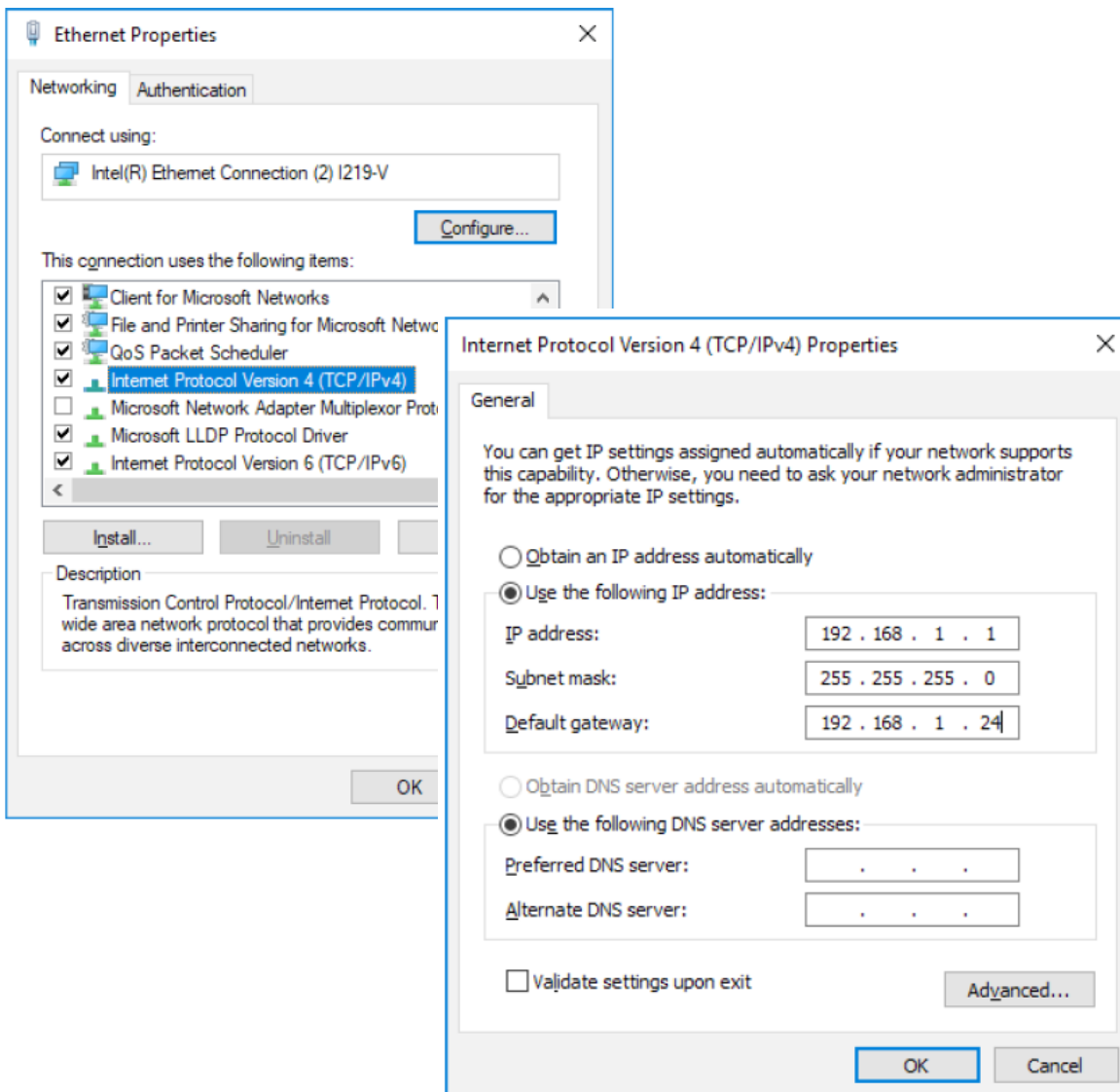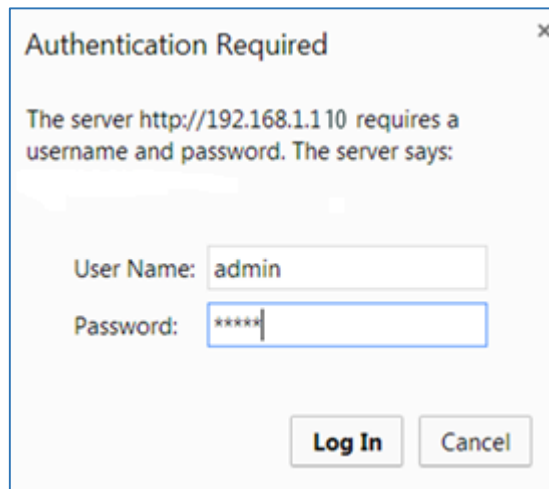

Open a Web browser such as Chrome, Safari, or Firefox (Google Chrome recommended) and type the address 192.168.1.110 or the address assigned to the device.

When the authentication form is displayed enter the web server access credentials

Remote connection via GPRS-UMTS modem/router or COMPANY LAN/ADSL network

- Open a web browser (Google Chrome recommended) and type the following address:
  caleffi.snpds.com/redirect.php/SNXXXXXXXX
  where XXXXXXXX is the serial number of DATA EASY as shown on the nameplate
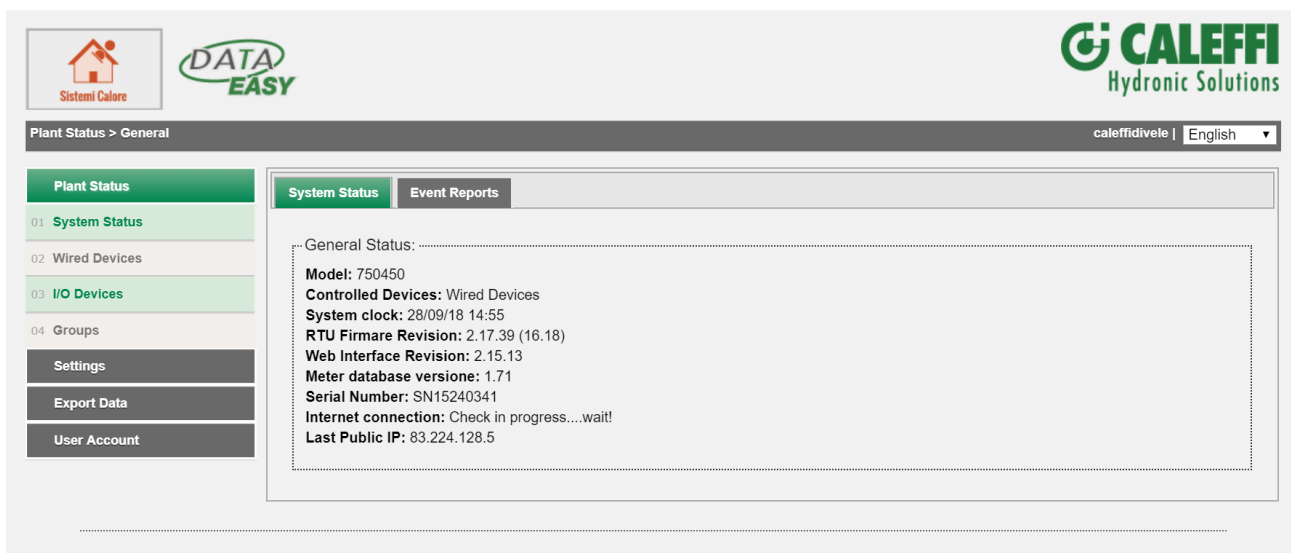- When the authentication form is displayed enter the web server access credentials

The credentials for the first access are

- User Name: admin
- Password: admin

Press the Access button to enter

The Home Page is as shown in the figure:

Plant status

Section for quick consultation of the plant status.

Plant Status > Status of the system

The following data are displayed:

Plant Status > Status of the system > System Status

- **Model**: shows the device model
- **Controlled Devices**: shows the type of controlled devices
- **System date and time**: current date and time
- **Firmware Version**: shows the firmware version
- **Web Interface Version**: shows the web interface version
- **Serial number**: shows the device serial number
- **Internet connection**: shows the Internet connection status

Plant Status > Status of the system > Events log

Contains a list of all events that occurred in the year selected in the drop-down menu

- **Delete Events**: allows events that occurred in the selected year to be deleted
- **Update**: updates the events view
- ✓ **All**: shows all events when checked
- ✓ **Email**: shows/hides events with mail type notification
- ✓ **I/O**: shows/hides Input/Output type events
- ✓ **M-Bus**: shows/hides M-Bus type events
- ✓ **M-Bus**: shows/hides FTP type events
- ✓

Shows all the meters linked to the DATA EASY device. Each meter is shown with the serial number, model, device name, description, and the main value set.
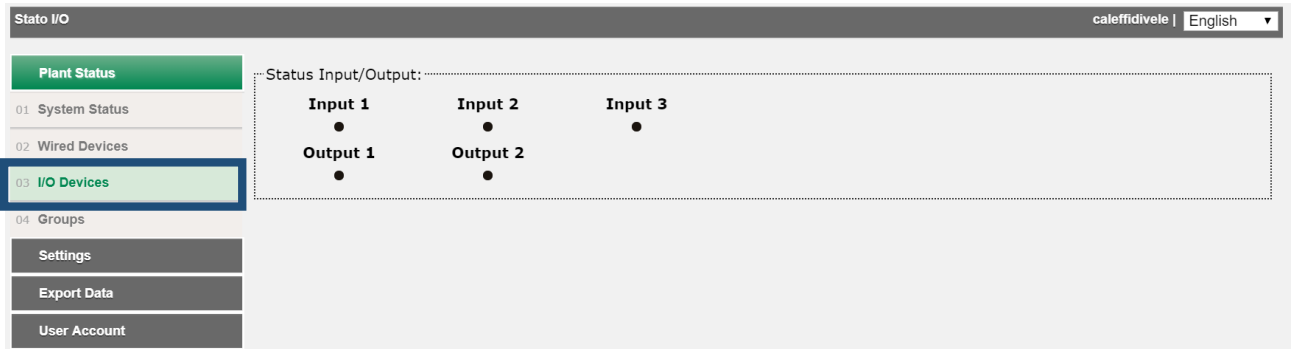
Selecting a line corresponding to a meter will open a window showing the information in detail. If shown in Red, the meter is in Error status.

Tick "In Error" to display exclusively meters in communication error status.

Shows the current status of digital inputs and outputs.

Click on the . symbol linked to the digital output (Output 1 or Output 2) to force contact opening or closing. Green dot means closed contact.

Plant Status > Groups

Settings

Dedicated section for master data, communication and events planning settings. The selectable items are as follows:

Settings > System

Settings > System > Plant master data

- Plant Name: enter a plant name
- Plant Address: enter the plant address
- Installer Name: enter the installer's name
- Customer Name: enter the customer's name
- Installation Date: if no value is entered, this field will default to the current date

The System settings page has two sections:

1. Date and Time: choose between manual setting and automatic setting. In this case the date and time will be set by synchronisation with your PC

2. System configuration:
   - LCD Password: used to change the password to access the commands on the device display. The default password is 000000
   - Restart system: allows the device to be restarted

   - Reset to factory settings: to initialize the device in accordance with the factory settings

     Select Reset to factory settings to reset DATA EASY configurations in the System and Network sections. To clear all the data saved by devices you must manually delete all the previously configured devices.

Settings > System > Service

The Service screen page is composed of

1. **Software Update**
    - **Firmware Version**: shows the firmware version in use
    - **Web Interface Version**: shows the web interface version in use
    - **SW/FW update**: allows automatic online or manual updating; manual updating is only possible if you have the binary file. The update will include both the firmware and the web interface

The system transmits information in relation to the update status, specifying, if available, the possibility of downloading a new update (the system must be connected to the Internet to use this service).

AFTER A SYSTEM UPDATE, RELOAD THE WEB PAGE.

2. **Backup/Restore Configuration**:
    - **System configuration backup**: tick if you wish to make a system configuration backup.
    - **Meter configuration backup**: tick if you wish to make a backup of already configured meters.
    - **Restore configuration**: select this item if you wish to restore the configuration and/or previously configured meters; the operation can be performed only if a previously created backup file is available
3. **Update meter database:** update the database of the meters automatically recognised by DATA EASY

The system must be connected to the Internet to use this service

## Settings > Network > General

Section dedicated to DATA EASY device network settings

- MAC address: shows the device's MAC-Address
- Enable DHCP: tick if you wish to use the DHCP protocol for IP assignment
- IP address: set the device static LAN address
- IP Gateway address: set the static Gateway address of the LAN
- Network mask: set the LAN network subnet mask
- Primary DNS: set the primary DNS address
- Secondary DNS: set the secondary DNS address

Use caution when entering/editing LAN parameters. Always consult a company or home network administrator for information on the LAN network class and associated data for correct configuration.

Section dedicated to the configuration of DATA EASY device advanced network configuration parameters. Editing of the parameters in this section should be carried out only by a specialised technician.
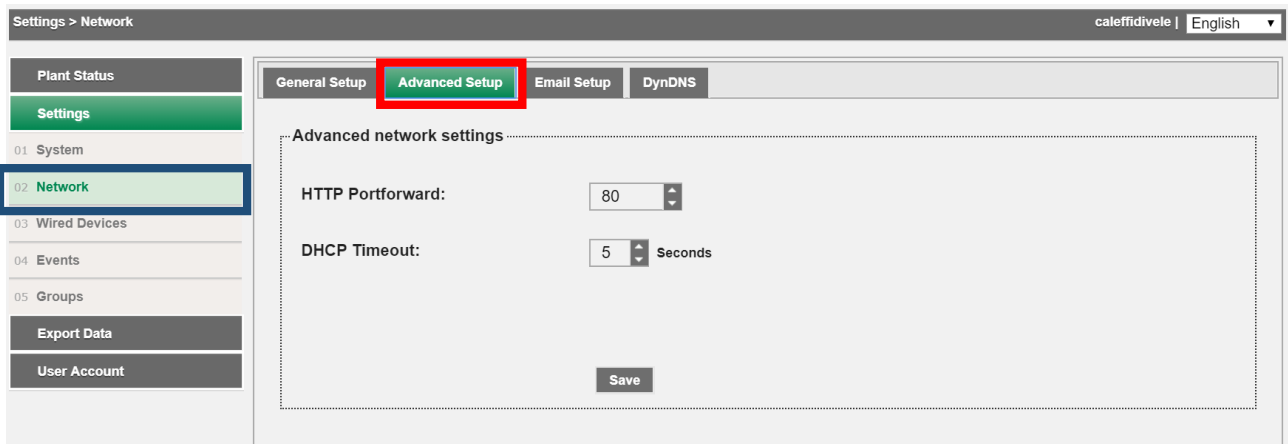
Section dedicated to set-up of the parameters required to send emails.

The page is divided into

1. Mail server settings
   - SMTP Hostname: enter the address of the SMTP server you wish to use
   - SMTP port: set the SMTP server communication port.
   - SMTP Username: enter the username for SMTP server access
   - SMTP password: enter the username for SMTP server access
   - Email Sender: enter an email address to define the sender
   - Email recipient n.1: enter recipient email addresses. Press ⊞ to add a recipient. Do not enter more than 4 recipients.

   Press Save to save the configuration. Press Test to check correct operation with the entered parameters

2. Mail communication management
   - ✓ Enable alarms notification by email: enables notification by email of the alarms present on the plant, as acquired by the DATA EASY device. The system will also manage automatic signalling of ***Communication Error*** alarms if one or more of the field devices fails to answer the interrogation correctly. Recovery from the error will be confirmed by sending an 'alarm ended' email. All notifications can always be consulted in the section System Status → Events Log.
   - Number of alarms awaiting notification: shows the number of alarms awaiting notification. Press the pending notifications Delete button to delete alarms that have yet to be notified and check the network and email management configuration settings

Do not edit the parameters entered in this section

Section dedicated to search/configuration of meters present in the plant

This section provides access to a list of saved meters. The first time the device is used the section will be completely empty.

The screen page is divided as follows:

1. Meters table

- **Model**: shows the model of the selected meter
- **Device name**: name of the meter
- **Description**: description of the meter
- **Del.**: click on the symbol to delete the meter

2. Meter data: the white fields are editable

- **Device name**: shows the name of the device
- **Description 1**: if blank, enter the first description for identification of the meter
- **Description 2**: if blank, enter the first description for identification of the meter
- **Installation date**: shows the meter installation date.
- **Readout interval**: frequency of meter readouts: 15 minutes, 1 hour, 6 hours, 12 hours, 1 day, 1 month.
- **Primary Address**: shows the meter address (uneditable).
- **Baud rate**: shows the speed with which the meter communicates with DATA EASY.
- **Readout by**: allows readout by primary address or secondary address
- **Serial number**: shows the serial number of the selected meter (uneditable)
- **Manufacturer Code**: shows the name of the manufacturer
- **Measured parameter**: shows the type of parameter read by the meter (uneditable)
- **Version (HEX)**: shows the meter version (uneditable)
- **Save**: to save any changes

3. Meter data setup: the fields highlighted in green are editable

Meter Data Block Settings

User description	M-Bus Description	Configuration standard report. [Data matching]	Configuration of report with data elaborated. [Type of elaboration]	Configuration of report data. [Favorites data]	Main Field
Bus address	Bus Address	none ▼	None ▼	☑	○
Fabrication number	Fabrication Number	fabrication_nun ▼	None ▼	☐	○
Heat energy	Energy	heat_energy ▼	Consumption ▼	☑	◉
Volume C1	Volume	none ▼	None ▼	☐	○
Power	Power	none ▼	None ▼	☑	○
Flowrate	Volume Flow	none ▼	None ▼	☑	○

Save

- **User description**: value originating from the device in accordance with the protocol standard, editable
- **M-Bus description**: value originating from the device in accordance with the protocol standard, uneditable
- **Summary data**: select the calculation type for the end of day summary data.
- Once of the following may be selected:
  - **Disable**: no data displayed
  - **Consumption**: generates value as end of day maximum and the corresponding delta
  - **Minimum**: generates the value as the day minimum
  - **Maximum**: generates the value as the day maximum
  - **Average**: generates the value as the day average
- **Display value**: tick the data to be displayed in the Devices section
- **Main value**: main value to be displayed in the Devices section
- **Save**: to save any changes

4. Meter alarm settings: each meter has a series of alarms that can be set individually. All the alarms managed will be shown as in the table below, and the management options can be customized for each alarm. By default, all check boxes will be disabled from each alarm. Once the alarm has been selected

Meter alarm settings

Log	Email	Event Name	Event Type	Status
🖥	📧	Probe flow temp error	M-Bus status notification	NOT ACTIVE
🖥	📧	Probe return temp error	M-Bus status notification	NOT ACTIVE

The section offers two different search types: automatic and manual. *We recommend always using the automatic meters search function, using the manual search option only when one or more devices is not recognised by the automatic search function*; this may occur if collisions occur during the automatic search that make it impossible to recover all the devices present in the field automatically, or if certain devices have a non-standard baud rate (always consult the meter datasheet to obtain this information).

1. Automatic Search
We recommend always performing an automatic search using the default settings

2. Manual Search: use this option only if one or more devices if not automatically recognised by the automatic search function.
This may occur if collisions occur during the automatic search that make it impossible to recover all the devices present in the field automatically, or if certain devices have a non-standard baud rate (always consult the meter datasheet to obtain this information).

Start the search by pressing the Start button. The search can be interrupted at any time by pressing Stop.

When the search is completed you can view and save the meters returned by the search.

When the search is terminated, the first four fields can be filled in, namely:

- Device name (editable): shows the name of the device automatically associated by DATA EASY
- Description 1 (editable): if blank, enter the first description to allow identification of the meter
- Description 2 (editable): if blank, enter the first description to allow identification of the meter
- Readout interval (editable): frequency of meter readouts: 15 minutes, 1 hour, 6 hours, 12 hours, 1 day, 1 month.
- Serial number: shows the serial number of the selected meter
- Manufacturer Code: shows the manufacturer's name, if the meter is present in the database and recognised
- Measured parameter: shows the type of parameter measured by the meter
- Version (HEX): shows the meter version
- Manufacturer: shows the manufacturer's name, if the meter is present in the database and recognised
- Model: shows the meter model, if present in the database.

If the meter is not recognised among those in the database, choose one of the available options.

Press Save to add the meter.

To edit previously saved meters go to the Meters Setup option

Settings > Events > I/O Events

In this section you can set up to four logical conditions linked to the status of the digital inputs (I1, I2 and I3)

Occurrence of the condition can be followed by transmission of an email or, by means of digital outputs O1 and O2, control of external devices.

Important: use digital outputs O1 and O2 only to control visual or audible signalling devices
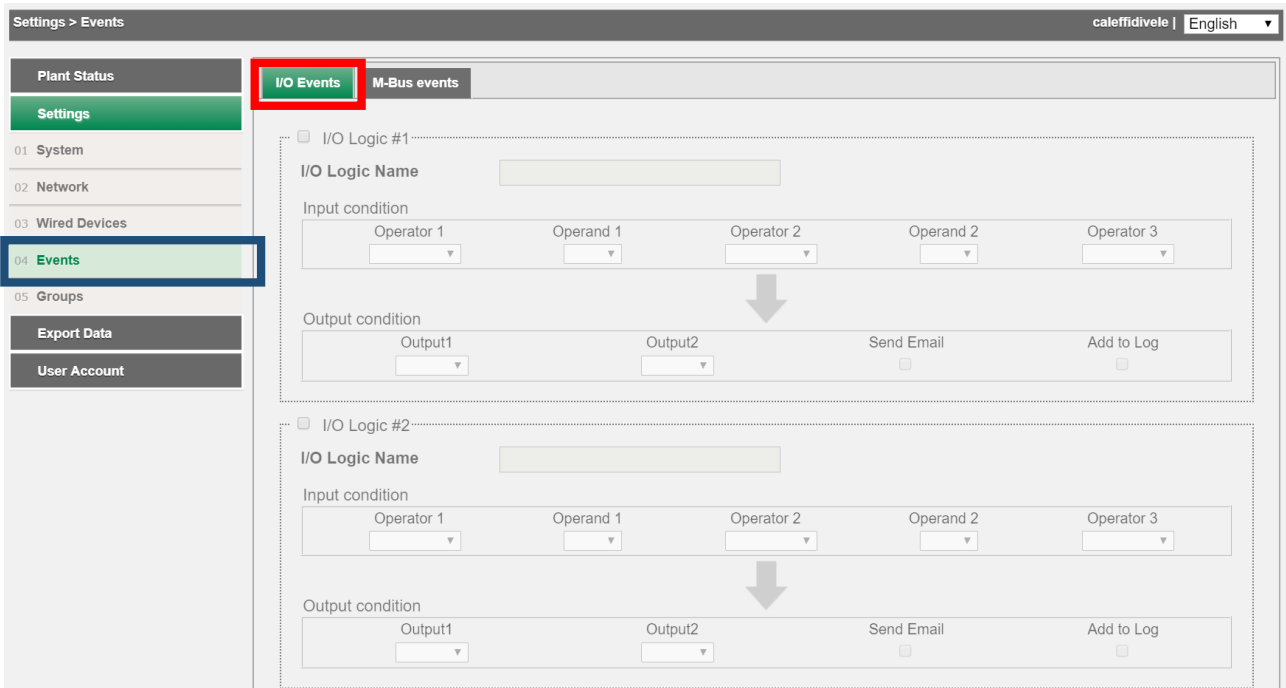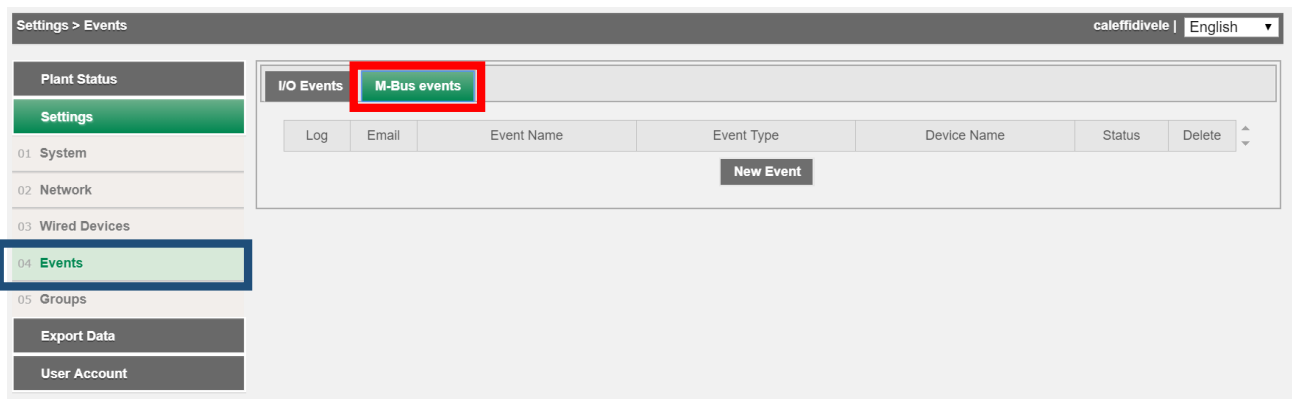

The following options can be selected in the logic set-up section

- ✓ Send mail: send an email to the recipients set in the mail section
- ✓ Add to Log: add to the Log table.

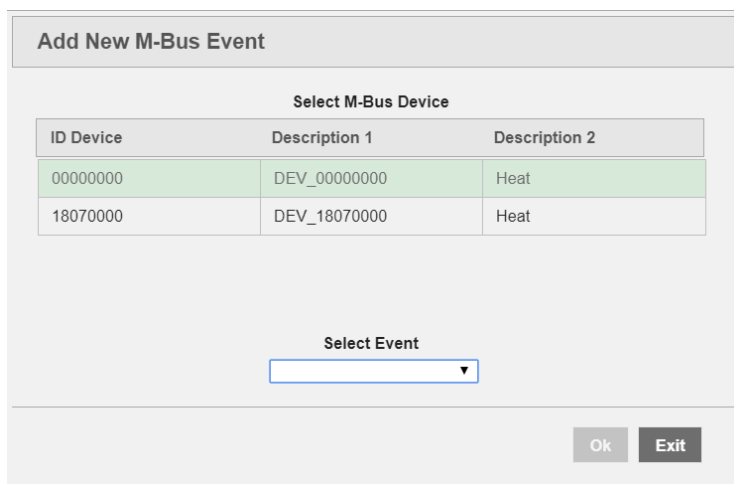Press Save to save the settings configured so far.

In this section you can set conditions with data input from meters in the plant to control outputs O1 and O2. Press the New Event button to create a new event

Select the meter of interest from which to obtain the event setting value

Once the meter has been selected, specify the type of condition, from among:

- **Maximum value**: condition set in accordance with the maximum value acquired by the parameter
- **Minimum value**: condition set in accordance with the minimum value acquired by the parameter
- **Out of range**: condition set in accordance with the range acquired by the parameter
- **M-Bus status indication**: condition set in accordance with the creation of a new meter event. Refer to the meter documentation to enable this condition

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Settings > Groups

Section dedicated to creating and managing virtual groups in which to insert, for example, all meters on the same staircase or all meters on the same floor of the building. The system can manage up to a maximum of 250 separate groups. Each group can have from one device up to a maximum of 250.
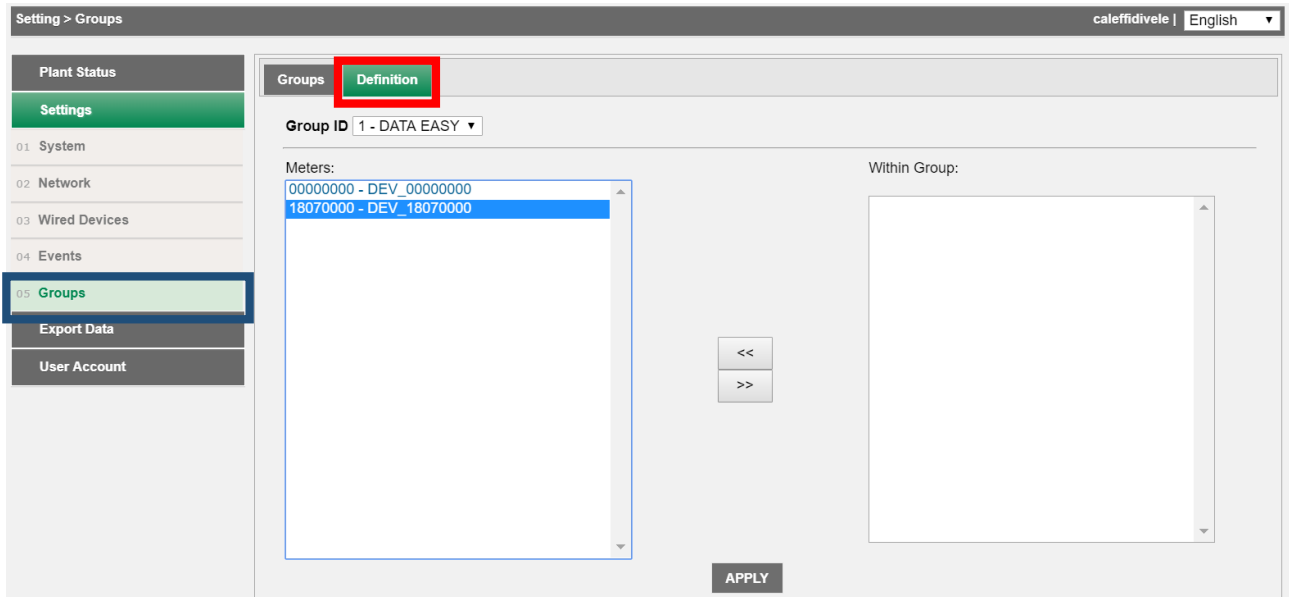
Settings > Groups > Groups

To create a group simply select NEW, type a name and then press OK:
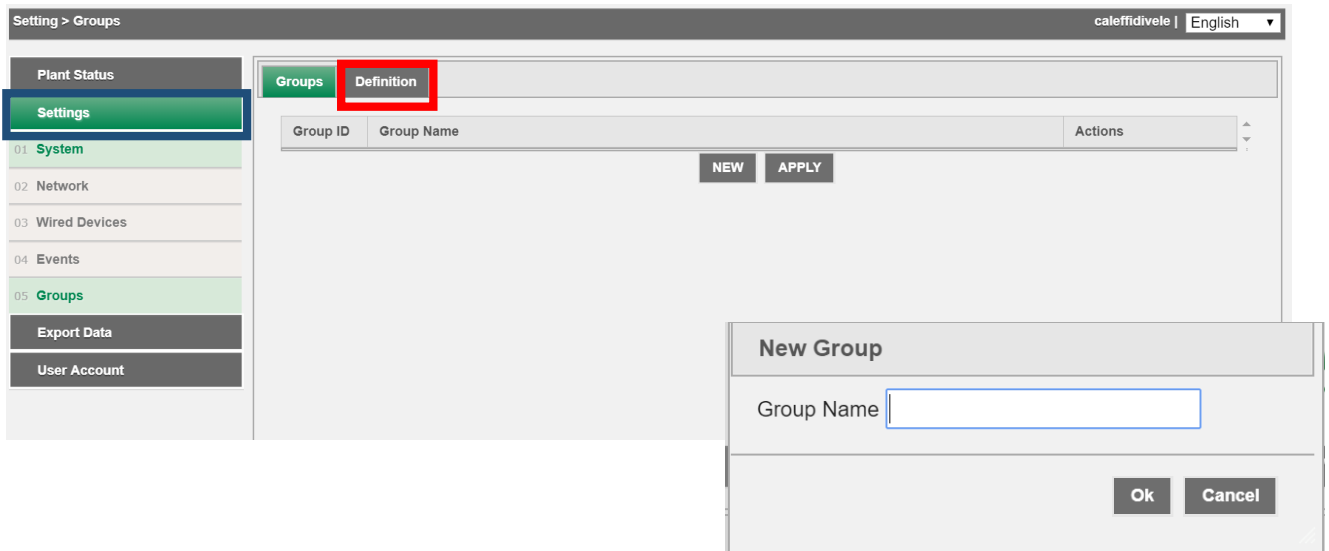
After creating the group press the APPLY button.

Settings > Groups > Definition

Once a group has been created the components to be included in the group can be defined. The window is divided into two boxes:

- Meters: shows all devices linked to DATA EASY
- In Group: shows all the devices linked to DATA EASY and already in the selected group
- A single device can be positioned either in the right-hand box or in the left-hand box using the direction arrows between the two boxes (<< >>)

1. Select the group of interest in the Group ID box
2. Select the device to be included in the group
3. Press the left arrow to include the device

On terminating the operations press the APPLY button to save the changes.

Data export

This section is dedicated to processing/export of the data logged in DATA EASY.

Data Export > Create report

Data Export > Create report > Meters

Select one or all of the devices present in the list. To select this latter option, simply tick the box at the top left of the table.

You can select between various types of export and three types of file format

Press the Create Report button: the file will be created automatically and the name will refer to the selected dates

Mouse over the newly created file and left-click on it to open it

Data Export > Create report > Groups

Do not use this export type

Data Export > Planning

From this section you can select the frequency of report creation and activate data transfer via FTP (File Transfer Protocol) to an external server.

Planning refers to each single device and the document created will always be consultable in the Reports Archive section.

The report will be generated at 08:15 AM of the current day in the case of daily planning, or at 08:15 AM of the last day of the selected period in consideration.

To conclude the settings press Save to save the entered configuration.

Data Export > Reports archive

The Reports Archive section is a repository of all the planning documents created manually or in accordance with a plan. When any file is selected for consultation the file will be downloaded automatically.

Nr.	File Name	File Size	Creation time	
4	01072018_15082018.xls	4.278	01.10.18-16:40	

User accounts

The User Accounts section allows editing of web server access data or exit from the web server.

User Account > Login

There are two account types available: admin and user.

A user account allows read-only access to the data contents

An admin account allows read and edit access to all the data contents

The default credentials for the user account are:

- User Name: user - Password: user

The default credentials for the admin account are:

- User Name: admin - Password: admin

User Account > Exit