



Energy Display

User manual

MyHOME



Contents

Energy Display	4
Description	4
Icon and keys	4
Main applications	6
Display features	7
Measured item area	8
Displayed line area	8
Detected consumptions and actuator status area	9
Load control status area	11
Date and time area	14
Unit of measure area	15
Data display	17
Electric consumptions	17
Load control consumption	22
Load control	25
Load control status	25
Disabled load/s	26
Forced load/s	27
Settings	30
Adjust the display brightness	30
Set the audible signal	32
Set the consumption threshold	33
Set the date and time	34
Resetting the consumptions measured by a meter to zero using an advanced actuator	35
Maintenance	36
In case of error	36

Energy Display

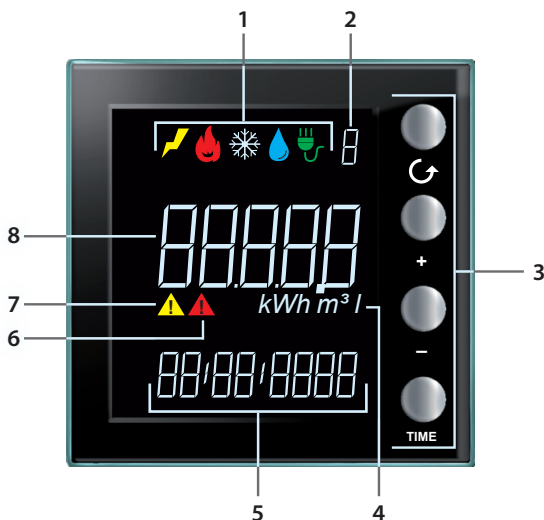
User manual

Energy Display

Description

Energy Display gives the possibility of monitoring electricity, gas, and water consumptions, displaying daily, monthly and annual consumptions, and therefore of allowing you to be always aware of how much energy is being used. Energy Display can also be associated to a load control system, with the possibility of manual forcing of any loads that may be disconnected from the central unit.

Icon and keys



1. Line display icons ([see Icon table](#)): only the icon for the selected line stays on.
2. Displayed line number (from 1 to 9).
3. Keys for the programming of the displaying of the data on the display ([see Key table](#)).
4. Unit of measure.
5. Current time (4 digits) or date (8 digits).
6. Disabled load status icon (only if configured with load control).
7. Forced load status icon (only if configured with load control).
8. Consumption value.

Icon table



Electricity icon.



Heating icon.



Cooling function.







Water consumption icon.



Load control icon.

Key table

Key	In consumption display	In load control	In user settings
	- it gives the possibility of selecting the line shown on the display.		- to exit the user settings menu
 	- based on the measuring period set with the TIME key (day, month, or year), it gives the possibility of displaying the previous or the next period	- forcing of the selected load (+), or return to the controlled status (-).	- display brightness adjustment - audible signal enable - threshold setting - date and time setting
 TIME	- selection of the display period: daily, monthly, or annual consumption	with advanced actuator: - display of actuator status - display of instantaneous consumption - display of total consumption	- it confirms the displayed setting, and moves to the next

Energy Display

User manual

Main applications

Energy Display can operate in three modes:

1. as display of energy consumptions from impulse counters.



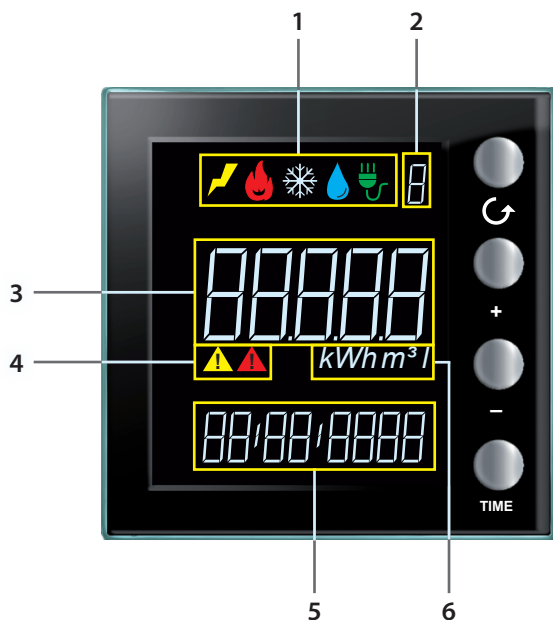
2. as display of electric consumptions.

3. as display of the statuses of the actuators of the individual load control lines and the corresponding consumption data.



Display features

For the sake of clarity, the details shown on the display can be split into different areas, as shown in the example.



1. Measured item area ([see the relevant section](#))
2. Displayed line area (from 1 to 9) ([see the relevant section](#))
3. Consumption information and load control actuator status area ([see the relevant section](#))
4. Load control status area ([see the relevant section](#))
5. Date and time area ([see the relevant section](#))
6. Unit of measure area ([see the relevant section](#))

Energy Display

User manual

Measured item area

Energy display recognises five different types of items, and displays the icons corresponding to each of them. The switching on of one of the icons indicates which consumption you are monitoring.

The example shows a screen displaying the consumption of electricity.



Displayed line area

The device can manage up to 9 Lines. The number shown on the display indicates the line for which you are monitoring the consumption.

The example shows a screen displaying line 2, associated to gas consumption.



Detected consumptions and actuator status area

This area of the display shows the consumption and the status of the device based on its configuration. For the sake of clarity, below are the example of the screens for each possibility.

Energy data display mode: it shows the consumption value with its unit of measure. The icon of the value and the number of the line being monitored switch on.

In the case of instantaneous consumption, the current time is also displayed, while for the total consumption, the corresponding date of reference is shown (day, month, or year).



Actuator status in load control mode: it shows the status of the actuator, On or Off, the load control icon, the line number and the current time.



Energy Display

User manual

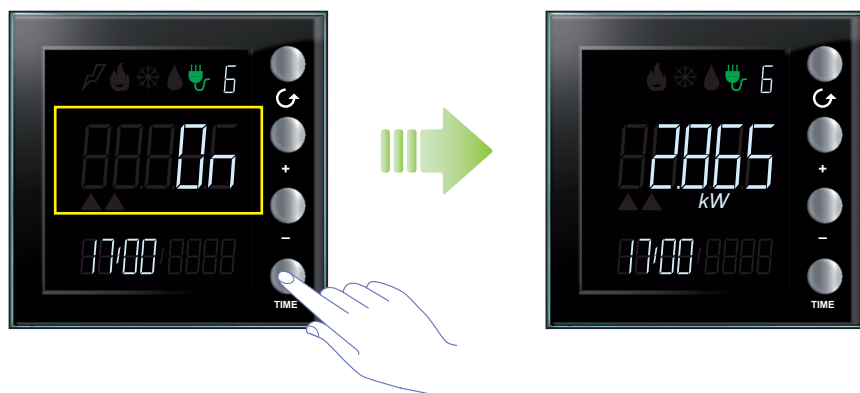
Consumption display in load control mode: it shows the consumption, the unit of measure, the load control icon, the line number, and the current time for instantaneous consumption, or the date of reference (day, month, year) for total consumption mode.



Load control status area

This area is used to indicate the status of the controlled loads when Energy Display is connected to a load control system. There are three possible statuses.

Enabled status: all the loads associated to the device are enabled, and no further icons are displayed.



Disabled status: When a load is disabled, the display automatically shows the corresponding line, together with the red warning symbol. Press the ↻ key to display the other lines present. The warning symbol will always be visible.

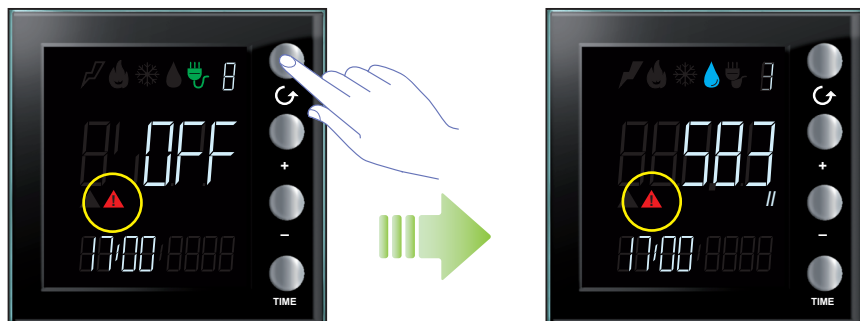
Display of the disabled line; the actuator status will be OFF.



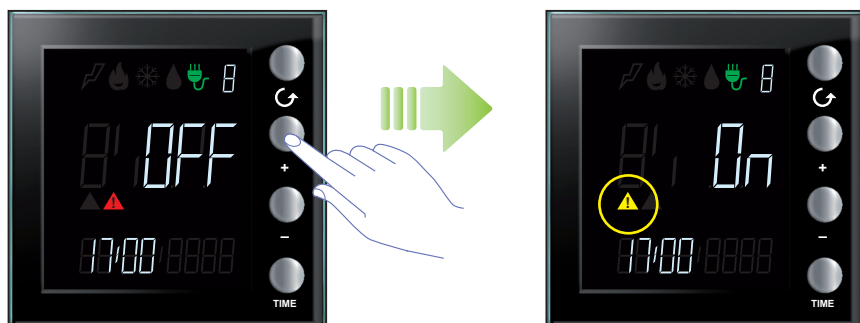
Energy Display

User manual

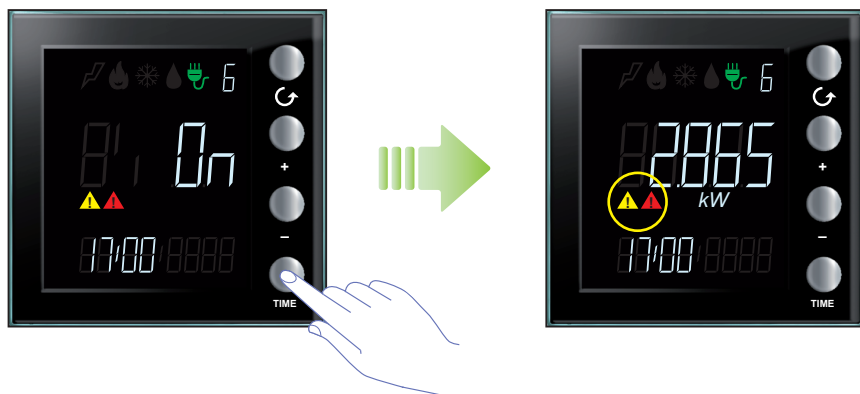
The red warning symbol remains on the display, irrespective of the line being shown, to warn that at least one of the loads associated to Energy Display has been disabled.



Forced load status: the yellow warning icon appears on the display to indicate that the load displayed has been forced manually to the enabled status.



Status of disabled and forced loads: if several loads associated to Energy Display have been disabled, and some (but not all) have been forced, both warning icons are shown. The red warning icon is shown irrespective of the line displayed, while the yellow warning icon is only shown when the line corresponding to the forced load is shown.



Energy Display

User manual

Date and time area

In this area of the display it is possible to display the time or the date.

The time appears when Energy Display shows the instantaneous consumption.



The date is displayed when the device is in total consumption mode.

For the daily consumption, the date consisting of day, month and year is shown, while for the monthly consumption only month and year are indicated, and for the annual consumption only the year of reference.



Unit of measure area

This area shows the unit of measure of the consumption being monitored.

The following units of measure are available.

Watt (W): this is used to measure the instantaneous electric consumption (power supplied).

If the value is higher than 999 W, the unit of measure is automatically expressed in kilowatts (1399 W = 1.399 kW).



Watt hour (Wh): this is used to indicate the electricity consumption during the selected period.

If the value is higher than 999 Wh, the unit of measure is automatically expressed in kilowatts-hour (1250 Wh = 1.250 kWh).



Energy Display

User manual

Litre (l): this is used to indicate the consumption (the hourly load) of water.

If the value is higher than 999 l, the unit of measure is automatically expressed in cubic metres (1399 l = 1.399 m³).

Note: the type of display shown is the basic display. It can however be modified during programming. For more information contact your installer.



Cubic metre (m³): this is used for gas consumption (the hourly load); the value is expressed in m³ also for values lower than one unit (0.835 m³ = 835 l).



Data display

In energy data display mode, Energy Display receives the consumption data from measuring devices (e.g.: electricity meters or impulse counters), and displays them as shown.

Electric consumptions

Electricity consumption measures the data from the use of electricity, socket line, electric cooling and heating system. The data are shown in watts (W) for instantaneous consumption mode, or in watts-hour (Wh) for total consumption mode.

The consumption (hourly load) measures the data from the use of gas and water. Data in litres (l) or cubic metres (m³).

E.g. screenshot for electric consumption



E.g. screenshot for volume consumption




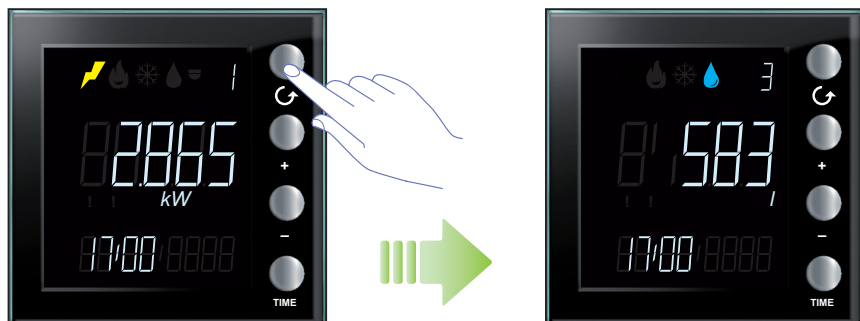
In stand-by, the display shows the following information:

1. icon corresponding to the type of consumption measured;
2. current time;
3. number of the line being monitored;
4. instantaneous consumption value, corresponding unit of measure, or status of the actuator (for load control).

Energy Display

User manual

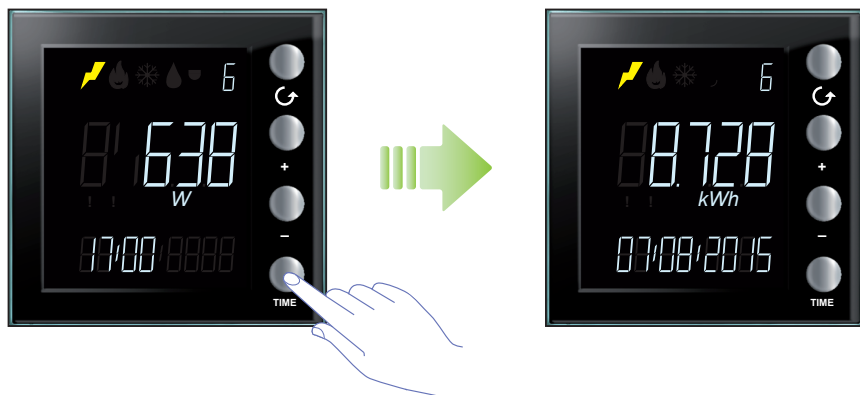
It is possible to display the data corresponding to all the lines configured by pressing the  key. Each time the key is pressed, the device moves to the next configured line.



If there are no consumptions for the line selected, the display of the device shows the following view:



After selecting a line, it is possible to display the total consumption data by pressing the "TIME" key. Each time the key is pressed, the device moves in succession from instantaneous to daily, to monthly, and to annual consumption.



In total consumption mode, the display of the device shows the following information:

- icon corresponding to the item measured;
- number of the line being displayed;
- total consumption for the day, month, or year;
- date of reference: day, month, year, or month and year, or year only.

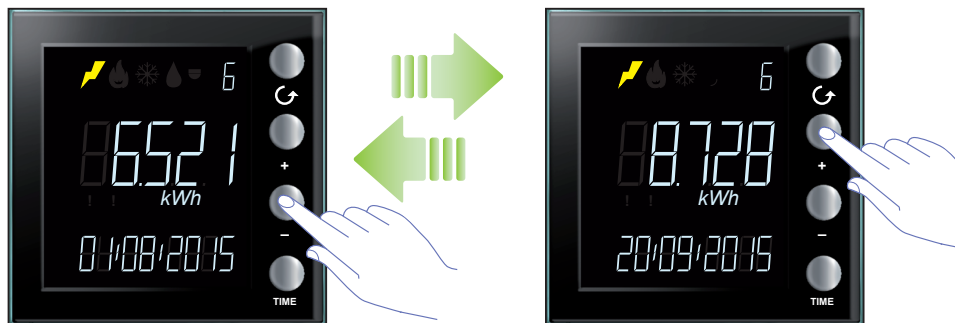
During the display of total consumptions, it is possible to select the day, month, or year that the user wants to display by pressing the "+" and "-" keys.



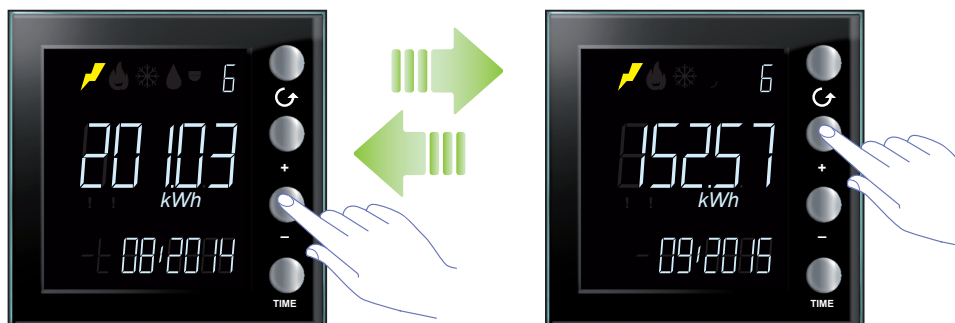
Energy Display

User manual

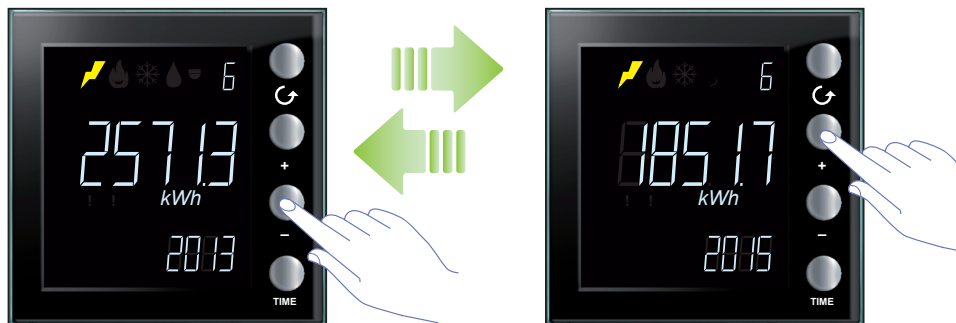
In daily consumption mode, Energy Display shows the consumption data for all the days of the current and the previous month. For example, if the current date is 09/20/2015, it is possible to display the daily consumption data from 08/01/2015 to 09/20/2015.



In monthly consumption mode, Energy Display shows the consumption data for the current month and the previous 13 months. For example, if the current date is 09/20/2015, it is possible to display the monthly consumption data from 08/2014 to 09/2015.



In annual consumption mode, Energy Display shows the consumption data for the current year and the two previous years. For example, if the current date is 09/20/2015, it is possible to display the consumption data from 2013 to 2015.



Energy Display

User manual


Load control consumption

In load control mode, the device shows the status of the actuators and the corresponding consumption data. **The consumption values are shown in watts (W) for instantaneous consumption mode, or in watts-hour (Wh) for total consumption mode.**

In stand-by, the display shows the following information:

- load control icon;
- number of the line being monitored;
- actuator status;
- current time.



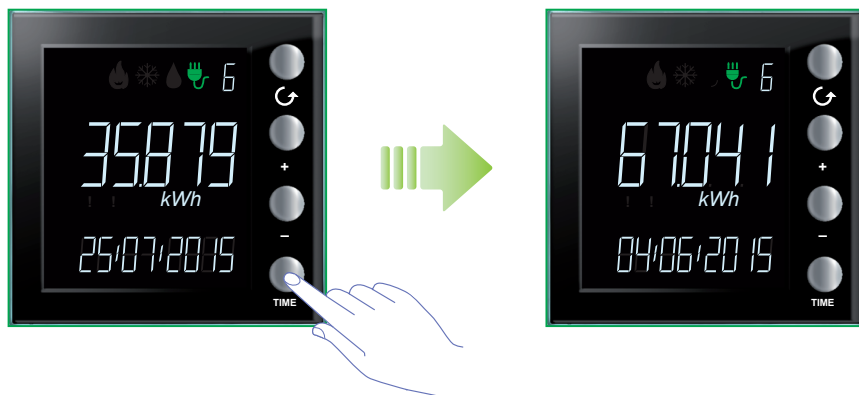
It is possible to display the data for all the actuator by pressing the  key.



If a **basic actuator** is available, Energy Display only displays the status of the actuator, **On** or **Off**; the "TIME" key has no effect. With a short pressure of the "+" and "-" keys, it is possible to force the status of the actuator ([see the relevant section](#)).



If an **advanced actuator** is available, after selecting the line, by pressing the "TIME" key it is possible to display its consumption data.



At the second and third pressure of the "TIME" key, the consumptions of the two meters are displayed, with their reset date.

Energy Display

User manual

In instantaneous consumption mode, the display of the device shows the following information:

- load control icon;
- number of the line being monitored;
- the instantaneous consumption value with the corresponding unit of measure;
- current time.

If there are no consumptions for the line selected, the display of the device shows the following view:



In total consumption mode, the display of the device shows the following information:

- load control icon;
- number of the line being monitored;
- the instantaneous consumption value with the corresponding unit of measure;
- Date of reference: day / month / year.



In this case, Energy Display indicates the total consumption of the two meters, starting from their reset dates.

To reset the total consumption of an advanced actuator, press the “+ and –” keys at the same time for more than 7 seconds.

Note: to force the status of an advanced actuator press the “+” key, to cancel the forcing press the “–” key.

Load control

Load control status

When one of the lines of Energy Display is associated with a load control device, the display shows the information on the status of the loads managed, through 2 warning icons and audible signals (**if enabled; see the relevant section**).

In normal status conditions, all the loads associated to Energy Display are enabled, and the warning icons are off.



Energy Display

User manual

Disabled load/s

When a load is disabled from the load management central unit, a red warning symbol is shown on the display, irrespective from whether the disabling relates to the line being monitored.

The screen shows an example where at least one load has been disabled. However, being the load associated to line 6, for the same the current or total consumption is displayed.



When a line for which the load has been disabled is displayed, the display shows the OFF status.



When a load is disabled, the display shows the page for the corresponding line, together with the OFF status indication, the red warning symbol, and the audible notification (if enabled). If another load is then disabled, Energy Display shows the corresponding line. The (red) warning symbol goes off when no load is disabled.

Forced load/s

The + key gives the possibility of forcing a load associated to the load management central unit; the forcing procedure can also be used for preventive forcing: it is possible to force a load to the enabled status even when the load has not been disabled by the central unit.

If the load is forced, the yellow warning symbol appears only when the corresponding line is displayed.


The screen shows an example where the load of line 6 has been forced.



Energy Display

User manual

Below is the procedure to follow when forcing a load.
In the example below, the loads of lines 4 and 6 have been disabled by the central unit.

Press  to select the line for which you wish to force the load (e.g. line 6).
The display shows the red warning icon and the OFF status.



Press “+” to force the load.
The display shows the yellow warning icon and the ON status.
As there is another load in OFF status (line 4), the red warning icon remains on.



Press  to select line 4.

The display shows the red warning icon and the OFF status.



Press "+" to force the load.

The display shows the yellow warning icon and the ON status.

The red warning icon goes off because there are no more disabled loads.



Energy Display

User manual

Settings

Press TIME for more than 7 seconds access the programming procedure.

The procedure requires the setting of the following parameters: display brightness level, audible signal, alarm threshold, time and date.

After setting all the parameters (display brightness level, audible signal, alarm threshold, time and date), the settings are saved.



A 5 min. time-out is set for the completion of the programming procedure, at the expiry of which no new settings will be saved.

Adjust the display brightness

Press TIME for over 7 seconds to start the programming procedure.



Use the “+” and “-” keys to set the brightness level.

Set a value between 1 to 10, or set OFF mode. The display shows the value set when adjusting the brightness.



Press the TIME key once or more, to go to the next settings, or to complete the procedure and save the changes made.

Energy Display

User manual

Set the audible signal

Press TIME for over 7 seconds to start the programming procedure.

Press TIME to go to the subsequent set-up stages (display brightness and audible signal).



Use the "+" and "-" keys to enable or disable the audible signal.

The display shows the "b" symbol, and the ON or OFF status.

Press the TIME key once or more, to go to the next settings, or to complete the procedure and save the changes made.



Note: this setting is only available when managing the load control system, or the alarm threshold.

Set the consumption threshold

The following procedure gives the possibility of further controlling the instantaneous consumptions by setting a threshold for the consumption of one individual electric line; when the value set is exceeded, the user is warned by means of an audible signal; a different audible signal indicates that consumptions are back within the set parameters.

Press TIME for over 7 seconds to start the programming procedure.

Press TIME to go to the set-up of the consumption threshold.



Use the “+” and “-” keys to set the general electric consumption threshold value (from 1 to 65535, or OFF).

The exceeding of the threshold will be indicated by 5 short beeps (if the buzzer is enabled), while the return of consumptions within the set limits will be indicated by an extended beep.



Energy Display

User manual

Set the date and time

Press TIME for over 7 seconds to start the programming procedure.



Use the "+" and "-" keys to set the hour.

Press TIME to go to minutes, day, month, and year.



Press the TIME key once or more, to go to the next setting, or to complete the procedure and save the changes made.

Resetting the consumptions measured by a meter to zero using an advanced actuator

This procedure is used to reset the value of the total consumptions measured of the selected line; the measurement restart immediately after resetting. This provides a measurement for a set moment.

This function is only available if the measurement of consumptions is performed by an advanced actuator (for more information contact the installer).

Press the “+” and “-” keys for more than 7 seconds to reset the meters.



The measurement restarts immediately after the reset of the device.



Energy Display

User manual

Maintenance

In case of error

If the display shows "Er" followed by a number, Energy Display is indicating the existence of a condition of error. In this case contact the installer.

Below is an example of the error screen.



The warranty becomes automatically void in case of negligence, improper use, tampering by unauthorised personnel.

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