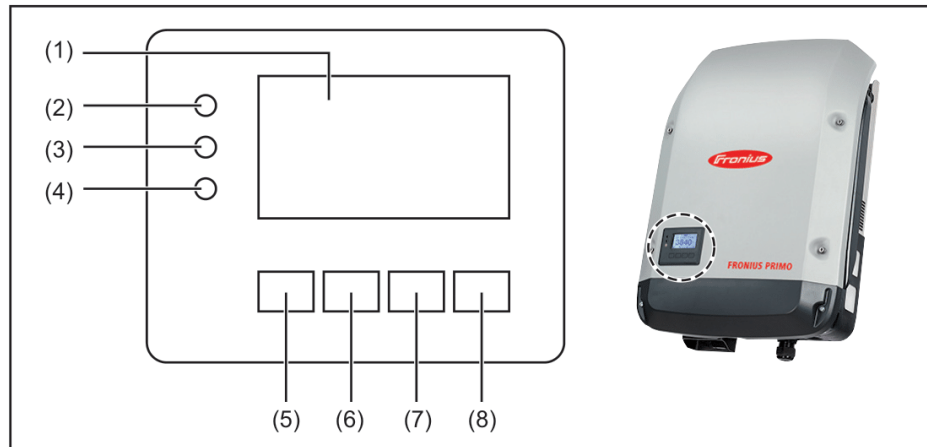


Controls and indicators

Controls and indicators



Item	Description
(1)	Display showing values, settings and menus
	Monitoring and status LEDs
(2)	General status LED (red) on steady, <ul style="list-style-type: none"> - if a status message is being displayed on the monitor - if the process of feeding energy into the grid is interrupted - while error handling (the inverter waits for an acknowledgement or for an error to be rectified)
(3)	Startup LED (orange) on steady if <ul style="list-style-type: none"> - the inverter is in its automatic startup or self-test phase (as soon after sunrise as the solar modules are delivering sufficient power) - the inverter has been switched to standby mode in the setup menu (= feeding energy into the grid switched off manually) - the inverter software is being updated
(4)	Operating status LED (green) on steady, <ul style="list-style-type: none"> - if the PV system is working correctly after the inverter's automatic startup phase - all the time while energy is being fed into the grid
	Function keys - allocated different functions depending on the selection:
(5)	'Left/up' key for navigating to the left and up
(6)	'Down/right' key for navigating down and to the right
(7)	'Menu/Esc' key for switching to the menu level for quitting the Setup menu
(8)	'Enter' key for confirming a selection

The keys are capacitive, and any exposure to water can impair their function. Wipe the keys dry with a cloth if necessary to ensure optimum functionality.





Display

Power for the display comes from the mains voltage. Depending on the setting selected in the Setup menu, the display can be kept on all day.

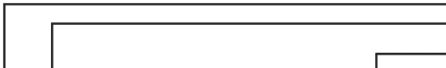

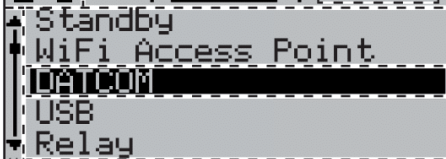

IMPORTANT!

The display on the inverter is not a calibrated measuring device.

A slight inaccuracy in comparison with the energy meter used by the power supply company is intrinsic to the system. A calibrated meter will be needed to calculate the bills for the power supply company.

	Menu item
	Parameter declaration
	Display of values, units and status codes
	Function key functions

Display areas in Display mode

	Energy-Manager (**) Inv. no. Save symbol USB conn.(***)
	Menu item
	Previous menu items Currently selected menu item Next menu items
	Function key functions

Display areas in Setup mode

- (*) Scroll bar
- (**) The Energy Manager symbol is displayed when the Energy Manager function is activated
- (***) Inv. no. = Inverter DATCOM number,
Save symbol - appears briefly while set values are being saved,
USB connection - appears if a USB flash drive has been connected

The menu level

Activating display backlighting

- 1 Press any key

The display backlighting is activated.

There is an option under "Display Settings - Backlighting" in the SETUP menu to set the display backlighting so that it is on all the time or off all the time.

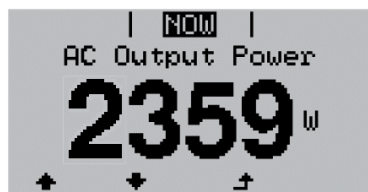
Automatic deactivation of display backlighting / changing to the "NOW" menu item

If two minutes pass without any button being pressed, the display backlighting switches off automatically and the inverter goes to the "NOW" menu item (assuming the display backlighting is set to AUTO).

The automatic selection of the "NOW" menu item can happen from any position on the menu level, unless the inverter was manually switched into the "Standby" operating mode.

After automatically selecting the "NOW" menu item, the current power of feeding in is displayed.

Open menu level



- 1 Press the 'Menu' key

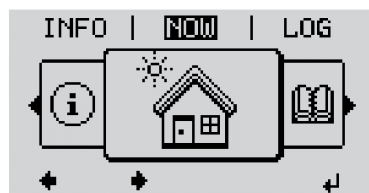


The display switches to the menu level

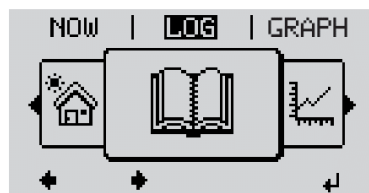
- 2 Use the 'Left' or 'Right' keys to select the desired menu item
- 3 Press the 'Enter' key to select the desired menu item

The NOW, LOG and GRAPH menu items

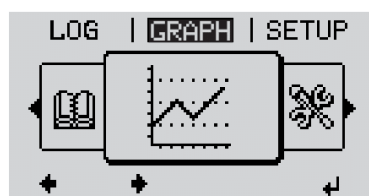
NOW
LOG
GRAPH



NOW
(Displays real-time values)



LOG
(Data recorded today, during the current calendar year and since the inverter was first commissioned)



GRAPH
Day characteristic displays a plot showing the power output during the day. The time axis is scaled automatically.

Press the 'Back' key to remove the display

Values displayed in the NOW and LOG menu items

Values displayed in the NOW menu item:

AC Output power (W)

AC Reactive power (V Ar)

AC Voltage (V)

AC Output current (A)

AC Frequency (Hz)

PV Array Voltage (V)

PV Array Current (A)

Time / date

Time and date on the inverter or in the Fronius Solar Net ring

Values displayed in the LOG menu item:

(for today, during the current calendar year and since the inverter was started for the first time)

AC Energy Yield (kWh / MWh)

Energy fed into the grid during the period in question

There may be discrepancies with values displayed on other measuring instruments because of differences in measuring methods. As far as the billing of the energy fed in is concerned, the only binding display values are those produced by the calibrated measuring device provided by the electricity supply company.

AC Max. Output Power (W)

Largest amount of power fed into the grid during the period in question

Earnings

Amount of money earned during the period in question (currency can be selected in the Setup menu)

Like the energy supplied figure, the yield figure may also exhibit discrepancies with other measured values.

The 'Setup Menu' section explains how to select a currency and charge rate. The factory setting depends on the respective country setup.

CO₂ savings (g / kg)

CO₂ emissions saved during the period in question

The value for CO₂ savings depends on the power station facilities and corresponds to the CO₂ emissions that would be released when generating the same amount of energy. The factory setting is 0.53 kg / kWh (source: DGS – Deutsche Gesellschaft für Sonnenenergie e.V. (German Society for Solar Energy)).

AC Max. Voltage L-N (V)

Highest voltage measured between the conductor and neutral conductor during the period in question

PV Array Max. Voltage (V)

Highest solar module voltage measured during the period in question

Operating Hours

Length of time the inverter has been working (HH:MM).

IMPORTANT! A prerequisite for the correct display of day and year values is that the time is set correctly.

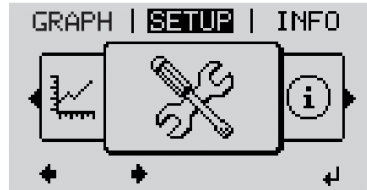
SETUP menu item

Initial setting

The inverter is pre-configured after commissioning has been completely carried out (e.g. using the Installation Wizard) according to the country setup.

The SETUP menu item allows the initial settings of the inverter to be changed easily to bring it in line, as closely as possible, with the preferences and requirements of the user.

SETUP



SETUP (Setup menu)

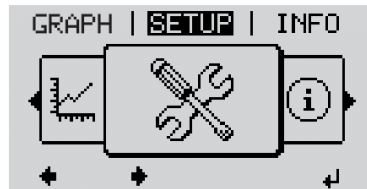
NOTE!

As a result of software updates, you may find that your device has certain functions that are not described in these Operating Instructions, or vice versa.

Certain illustrations may also differ slightly from the actual controls on your device, but these controls function in exactly the same way.

Navigating the SETUP menu item

Entering the SETUP menu item



Menu level, "SETUP" selected

- 1 At the menu level, use the "Left" or "Right" keys to select the "SETUP" menu item
- 2 Press the "Enter" key



"Standby" entry

The first entry under the SETUP menu item is displayed:
"Standby"

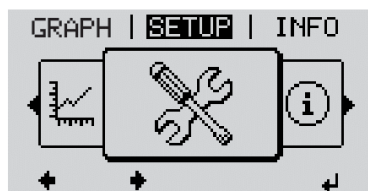
Scrolling between the entries



Example: "WiFi Access Point" menu item

- ▲ ▼ **3** Use the "Up" and "Down" keys to move between the available entries

Exiting an entry



- ▲ **4** To exit a menu entry, press the "Back" key

The menu level appears

If no key is pressed for 2 minutes:

- The inverter switches from wherever it is on the menu level back to the "NOW" display mode (exception: "Standby" Setup menu entry),
- The display backlighting goes out.
- The amount of energy currently being fed in is displayed.

Setting menu entries, general

- 1** Open the desired menu
- 2** Use the 'Up' or 'Down' keys to select the desired menu item
▲ ▼
- 3** Press "Enter"
↵

The available settings are displayed:

- 4** Use the 'Up' or 'Down' buttons to select the desired setting
▲ ▼
- 5** Press the 'Enter' key to save and apply the setting.
↵

To discard the setting, press the 'Esc' key.

▲

The first digit of a value to be set flashes:

- 4** Use the 'Up' or 'Down' keys to select a value for the first digit
▲ ▼
- 5** Press "Enter"
↵

The second digit of the value flashes.

- 6** Repeat steps 4 and 5 until ...

the whole value to be set flashes.

- 7 Press "Enter"
↵
- 8 Repeat steps 4 - 6 as required for units or other values that are to be set until the appropriate unit or the value flashes.
- 9 Press the 'Enter' key to save and apply the changes.
↵

To discard the changes, press the 'Esc' key.
⬆

The currently selected menu item is displayed.

The currently selected menu item is displayed.

Application example: Setting the time



- 1 Select 'Time / Date' from the Setup menu
⬆
- 2 Press the 'Enter' key
↵



- 3 Use the 'Up' or 'Down' keys to select 'Set time'
⬆
- 4 Press the 'Enter' key
↵

An overview of the values that can be changed is displayed.



- 5 Use the 'Up' and 'Down' keys to select a value for the 'tens' digit for the hour
+ -
- 6 Press the 'Enter' key
↵

The current time appears. (HH:MM:SS, 24-hour clock), the 'tens' digit for the hour will flash.



- 7 Repeat steps 5 and 6 for the 'units' digit for the hour, for the minutes and seconds until...

The 'units' digit for the hour will flash.



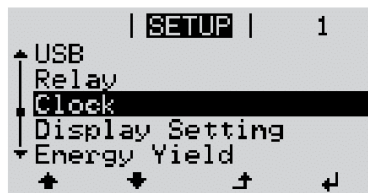
the set time starts flashing.

↓ **8** Press the 'Enter' key



The time is applied and the overview of values that can be changed is displayed.

↑ **4** Press the 'Esc' key



The 'Time / Date' item on the Setup menu appears.