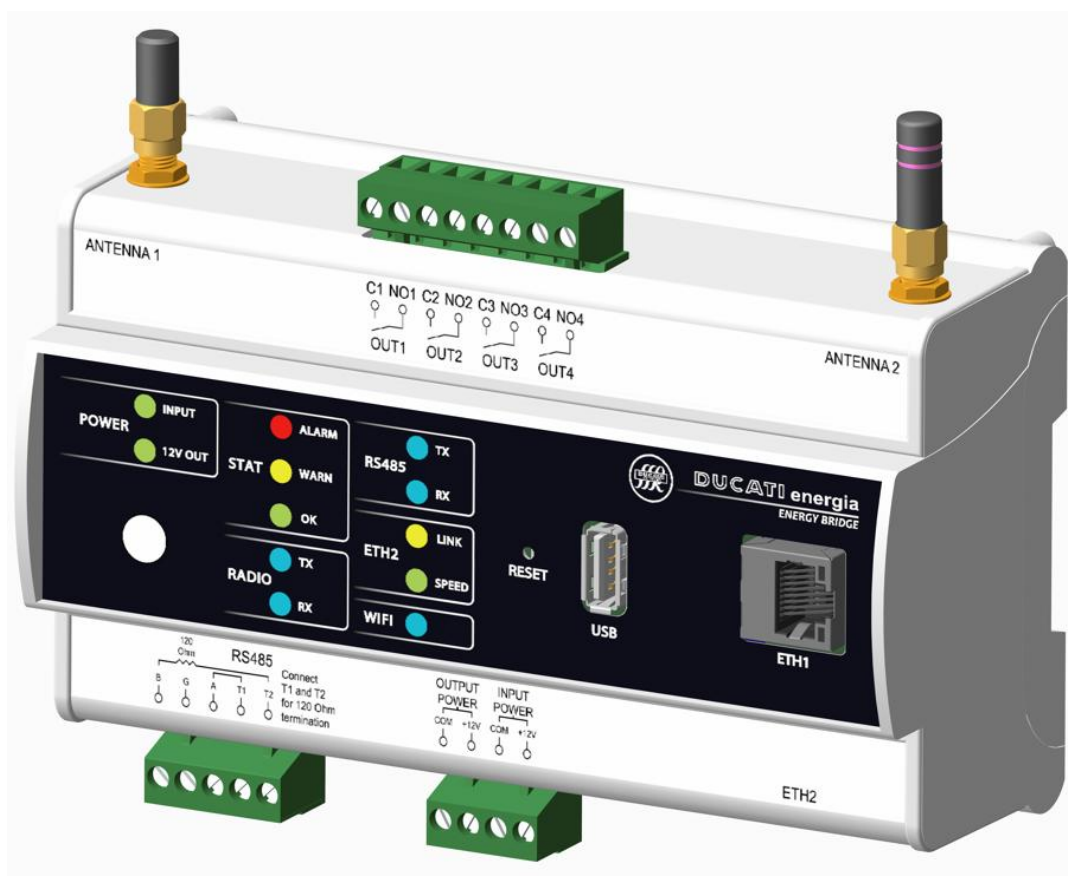




ASSEMBLY AND OPERATING INSTRUCTIONS ENERGY BRIDGE 5.0



Version B – August 2026

Reference FW Version V 2.12 and later



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1 GENERAL INFORMATION

As part of the Ducnet energy monitoring system, *Energy Bridge 5.0* is Ducati Energia's datalogger with data reading and storage functions from analysers, power factor correction regulators and environmental sensors.

Energy Bridge 5.0 has an integrated webserver that simplifies the configuration of the network of monitored instruments, the consultation of measurements, the export of stored data and the activation of the Ducnet cloud service. The latter functionality requires connection to the internet via a LAN or Wi-Fi network provided by the user.

Energy Bridge 5.0 is a device for the energy management of industrial plants, organizations branched out on the territory, isolated workstations or production plants, E.S.CO. The main features are flexibility and ease of use, high reliability and measurement assurance.

1.1 Warnings

	Read this guide carefully before using the device. The purpose of this guide is to provide you with the information you need to install and use your device.
	Installation and wiring of the device must be carried out by qualified personnel.
	The installation environment of the apparatus presents a potential danger of electrocution, burns, and electric arc. Equip yourself with personal protective equipment suitable for complying with current electrical safety regulations.
	Before proceeding with the connections, check that the upstream power supply is disconnected by means of a voltage detection device that must be placed near the device or in any case be easily accessible by the operator.
	If necessary, clean the outer surface of the device using only a damp cloth.
	Do not dispose of the device as mixed municipal waste.

1.2 Reference Regulations and Compliance

The manufacturer, Ducati energia S.p.A., declares that the Energy Bridge 5.0 dataloggers comply with Directive 2014/53/EU (RED).

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.ducatienergia.com>





1.3 Package Contents

The contents of the package are listed in the following table:

#	Description
1	Datalogger Energy Bridge 5.0
2	868MHz radio communication antenna (antenna 1)
3	2.4GHz Wi-Fi communication antenna (antenna 2)
4	Female connector with screw tightening 8 poles (5.08mm pitch)
5	Female connector with screw tightening 5 poles (5mm pitch)
6	Female connector with screw tightening 4 poles (5.08mm pitch)
7	ACDC 230Vac/12Vdc 30VA power supply
8	RJ45 ethernet patch 2m
9	Assembly and operating instructions

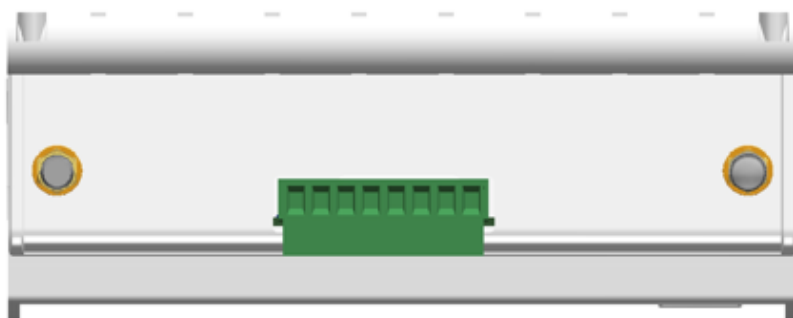
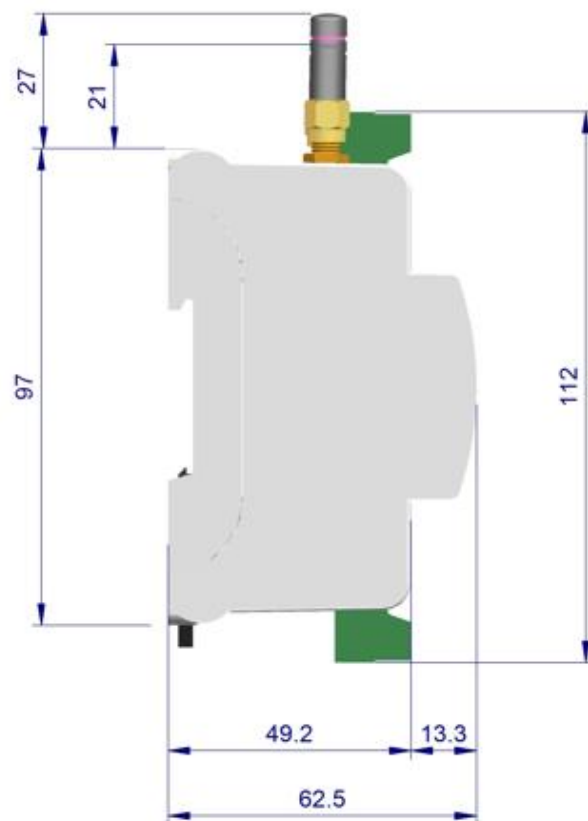


2 TECHNICAL FEATURES

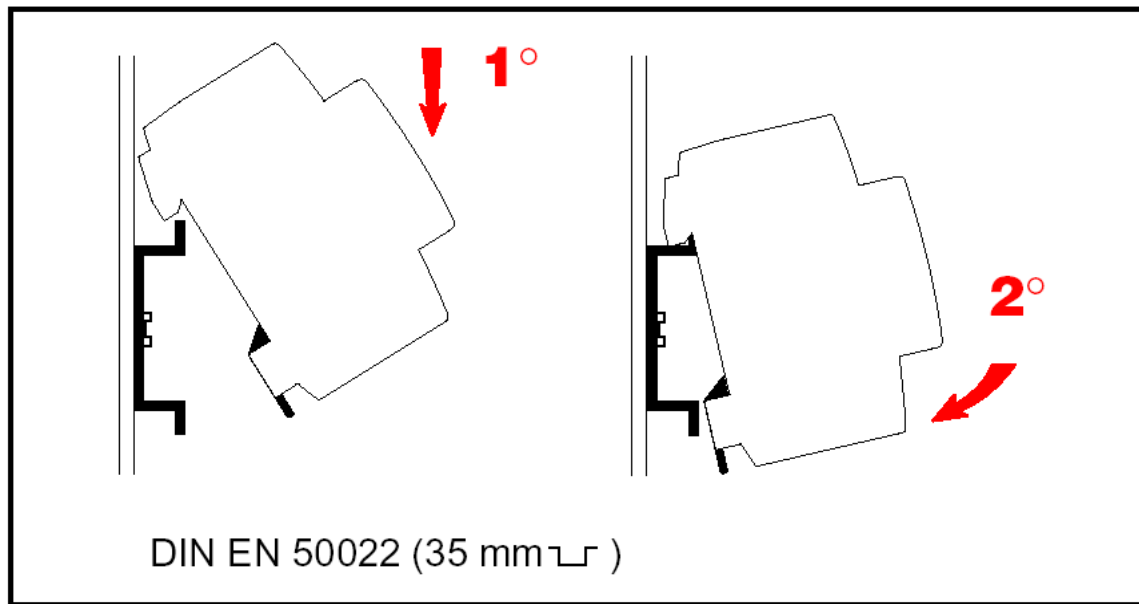
Enclosure 9 DIN rail modules compliant with CEI EN 60715 and DIN 43880 standards.
Power supply: 12VDC – max. 1A
12VDC output for power supply to environmental sensors
RS485 port for data acquisition with Modbus-RTU protocol.
2 x 10/100 Mbps Ethernet LAN ports; auto-negotiating, auto-discovery, full/half duplex.
1 USB port for data download.
2.4GHz WiFi interface
SRD 868MHz Radio Interface
12 signal LEDs, multifunction button and reset button
4 programmable relay outputs 2A – 250V
Variscite Dart6-UL SOM, 512 MB Ram, 8 GB EMMC
Embedded Yocto Scarthgap Linux Operating System
Webserver for configuration, visualization of monitored instruments and instrument status, download of measurements and activation of Ducnet cloud service
Monitoring of DUCATI energia instruments (analysers, power factor correction regulators and environmental sensors) via Modbus-RTU protocol (via RS485 or 868MHz Radio) or Modbus-TCP (via LAN or Wi-Fi)
Operation as a Modbus TCP slave device with the availability on a single map including all measurements read by the connected instruments
Internal memory with capacity to store measurements up to several years: i.e., storing 10 measurements for 10 devices, the memory autonomy is 5 years.



2.1 Dimensions



2.2 DIN rail mounting



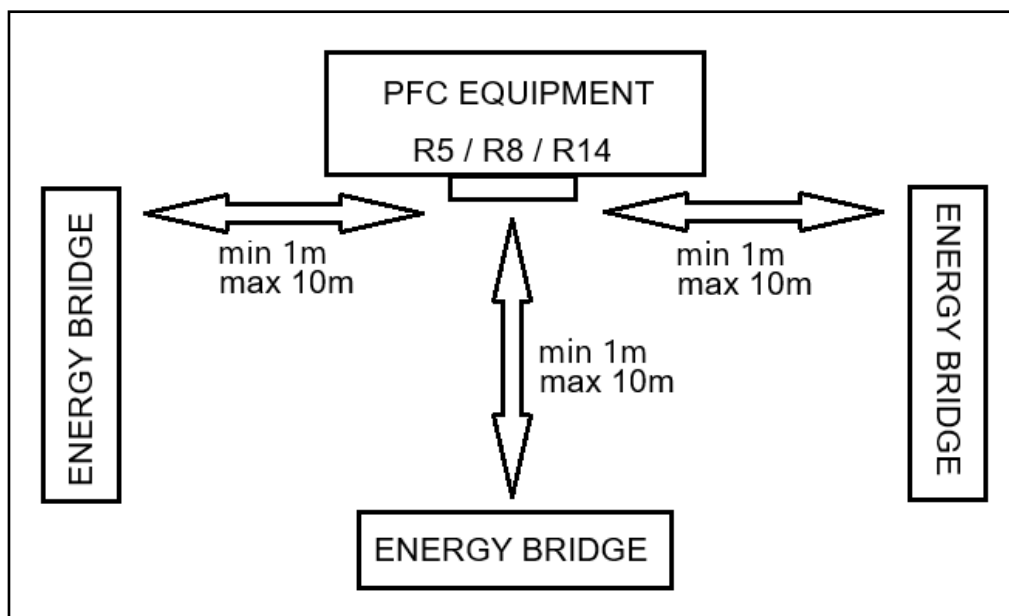
For DIN rail mounting:

- at an angle of at least 30°, place the datalogger housing on top of the guide, making sure that the latter enters the groove;
- Rotate the datalogger until it is in the upright position, with enough pressure to snap the retaining clip into place.

2.3 Positioning in case of radio communication

If radio interface is used for communication with the instruments to be monitored (power factor correction regulators), the following positions of the Energy Bridge 5.0 are allowed:

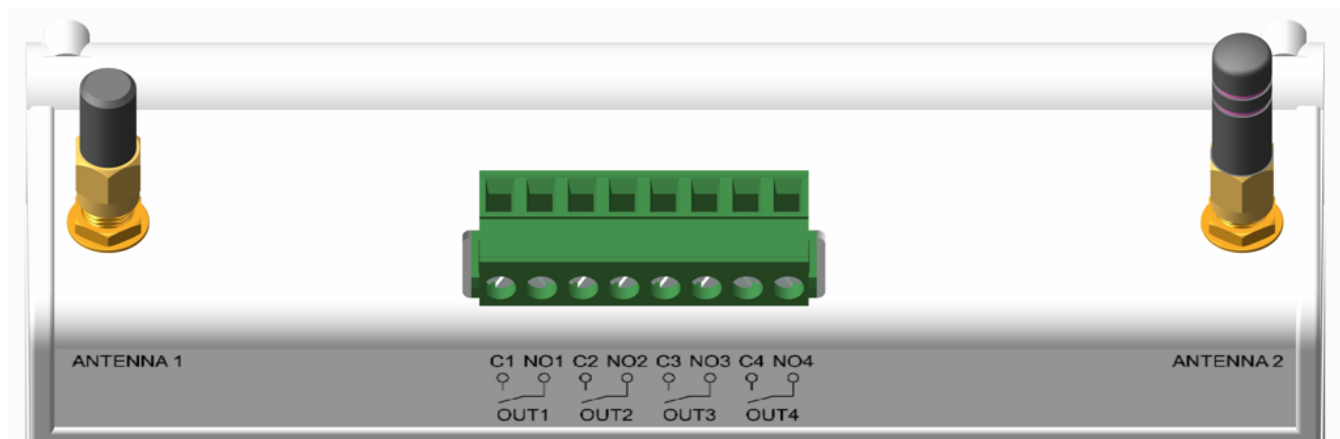
- front at a distance between 1 and 10 meters;
- to the right or left (at a 90° angle) at a distance between 1 and 10 meters.



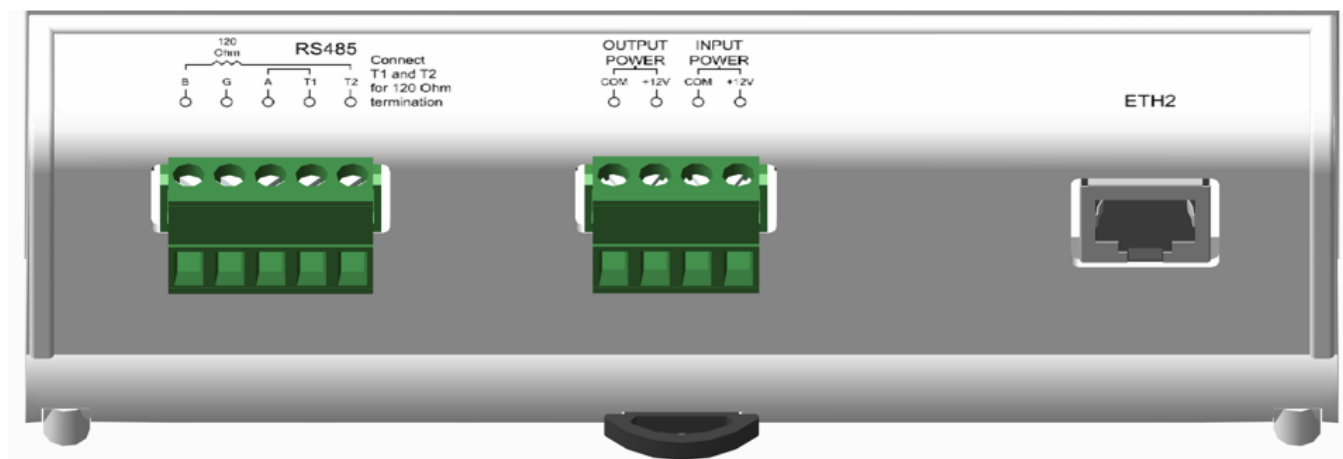


3 CONNECTORS, PORTS, BUTTONS AND LEDS

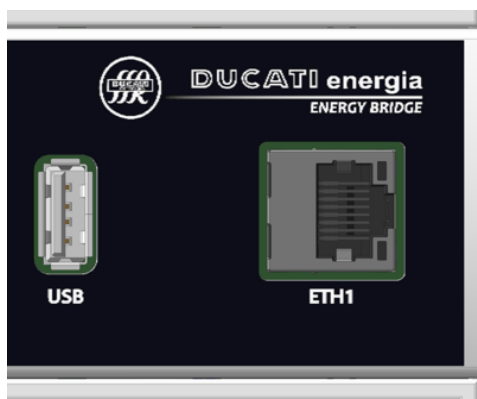
3.1 Connectors and ports



Top terminal cover		
Reference		Description
ANTENNA 1		SMA Female Connector for 868MHz Radio Antenna
ANTENNA 2		SMA Female Connector for 2.4GHz Wi-Fi Antenna
OUT1	C1	Normally Open "Dry" Contact - Relay Output 1
	NO1	
OUT2	C2	Normally Open "Dry" Contact - Relay Output 2
	NO2	
OUT3	C3	Normally Open "Dry" Contact - Relay Output 3
	NO3	
OUT4	C4	Normally Open "Dry" Contact - Relay Output 4
	NO4	

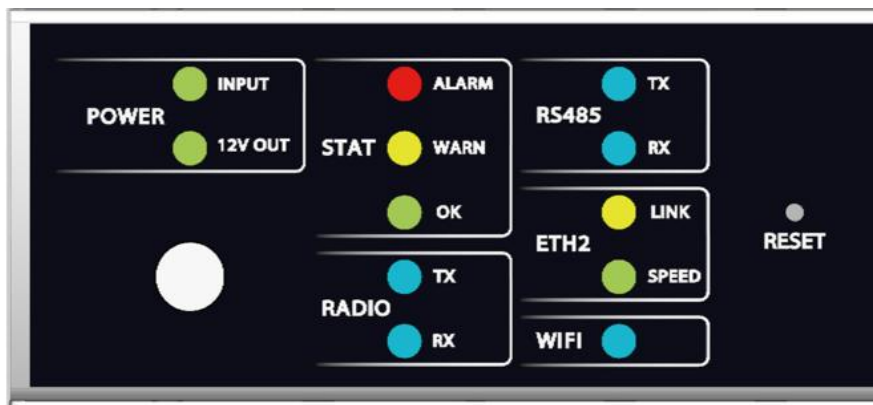


Lower terminal cover		
Reference	Description	
RS485	B (-)	RS-485 B data signal
	G	Shield connection (SHIELD)
	A (+)	RS-485 A data signal
	T1	Connect with jumper to insert the 120 Ω internal termination resistor
	T2	
OUTPUT POWER	COM	Negative pole for power supply to external sensors
	+12V	Positive pole for power supply to external sensors
INPUT POWER	COM	Negative pole for datalogger power supply
	+12V	Positive pole for datalogger power supply
ETH2	LAN Network Connection 2	



Front	
Reference	Description
USB	USB device port
ETH 1	LAN Network Connection 1

3.2 Buttons and LEDs



Buttons	
Reference	Description
RESET	Micro button for datalogger restart
BUTTON	Multifunction button, see chap. 5.3

LEDs		
Reference	Color	Description
POWER - INPUT	GREEN	Presence of 12VDC power supply on INPUT POWER
POWER - 12V OUT	GREEN	Presence of 12VDC power supply on OUTPUT POWER
STAT - ALARM	RED	Persistent connection issue with at least one monitored instrument
STAT - WARN	YELLOW	Temporary connection issue with at least one monitored instrument
STAT - OK	GREEN	Regular connection with monitored instruments
RADIO - TX	BLUE	Data transmission over 868MHz radio interface
RADIO - RX	BLUE	Data receiving over 868MHz radio interface
RS485 - TX	BLUE	Data transmission over RS485 interface
RS485 - RX	BLUE	Data reception over RS485 interface
ETH2 - LINK	YELLOW	LAN Network Connection 2 presence
ETH2 - SPEED	GREEN	Data transmission over LAN2 interface
WIFI	BLUE	Active Wi-Fi connection



3.3 Datalogger power supply

Power the datalogger via the INPUT POWER terminals using the supplied power supply or another power supply with the same characteristics.

3.4 Antenna mounting

Make sure you install the antennas correctly:

- screw the shorter, completely black antenna supplied onto the left SMA connector (ANTENNA 1);
- screw the longer antenna with two pink rings on the supplied SMA connector on the right (ANTENNA 2).

Screw the antennas in as far as they will go without forcing the rotation any further.

4 WEB SERVER and CONFIGURATION

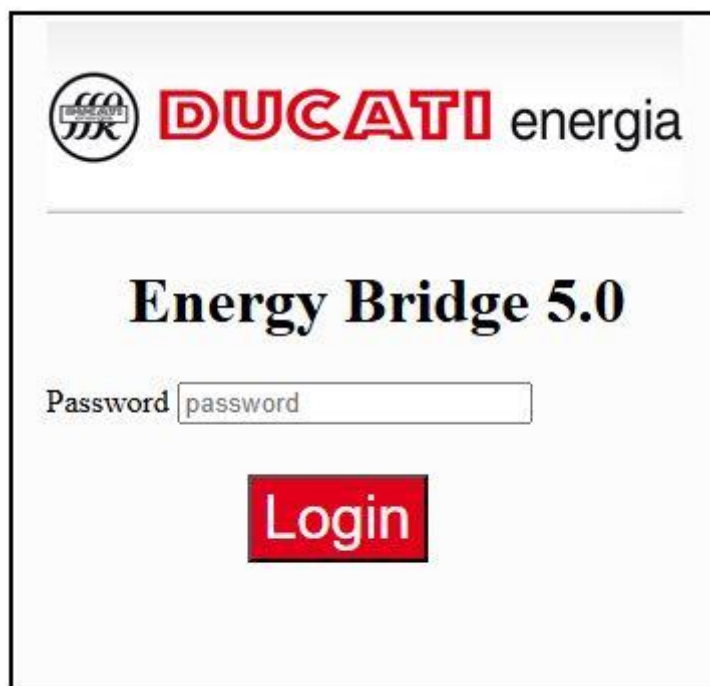
The configuration of the Energy Bridge takes place via the integrated web server, which can be reached from both the ETH1 and ETH2 ports.

The IPv4 address of ETH1 in factory configuration is 192.168.0.111.

The IPv4 address of ETH2 in factory configuration is dynamic.

If you want to use the ETH1 port, you need to change the IPv4 address of the PC's LAN port to an Energy Bridge-compatible address, such as 192.168.0.20. For Windows, use the **Network Connections** setting, select the network to which the datalogger is connected, and change its IPv4 address using the **Properties** menu.

After configuring the PC, open a web browser among those supported (Microsoft Edge, Mozilla Firefox or Google Chrome) and type <https://192.168.0.111> on the address bar to open the Energy Bridge configuration login page.

The image shows the login page for the Energy Bridge 5.0 web server. At the top, there is the Ducati Energia logo. Below it, the text "Energy Bridge 5.0" is displayed in a large, bold, black font. Underneath this, there is a label "Password" followed by a text input field containing the placeholder text "password". At the bottom of the form, there is a red rectangular button with the word "Login" in white text.

The default login password is **Ducati_182**.

Only one access to the web server is allowed at a time. While one login is active, other attempts to log in from different PCs are rejected with the indication of the IP address that has the session active.

The first time you log in, you are asked to change the default password. The password validity requirements are listed in chapter 4.5.1.

WARNING: Keep your access password safe. If you forget it:

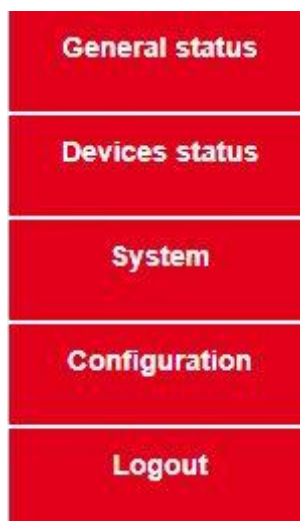
- if the datalogger has been enabled on the Ducnet platform, you can reset the web server access password to the default value using the platform's own functionality. Refer to the Ducnet manual for further information;
- if the datalogger has not been enabled on the Ducnet platform, you can only perform a complete factory reset (see chapter 5.2), which will IRREVERSIBLY delete all configurations and data saved on the datalogger.



4.1 Main menu

The main menu is located in the left column of the web interface and includes the following submenus:

- **General status:** provides information about the status of the datalogger.
- **Devices status:** shows the operating status of the connected measuring instruments, allowing you to check their activity and the correct acquisition of data.
- **System:** collects the main system functions such as software update, data export, Ducnet activation/deactivation and remote assistance.
- **Configuration:** allows the configuration of the operating parameters of the datalogger and the configuration of the connected instruments.
- **Logout:** securely end the session.





4.2 General status

The **General status** page provides a comprehensive, real-time overview of the operating conditions of the Energy Bridge device.

DUCATI ENERGY BRIDGE 5.0 - General status	
Description	Value
Datalogger type	ENERGY BRIDGE 5.0
Serial Number	A24010001
Name	Energy Bridge Variscite Test
General status	OK
Release	2.13
Date and time	30/07/2026 15:08:30
Time since last reboot	0:06:40
Measures saving time interval	15 min
Number of measures savings from midnight	61
Measures acquisition time	0 msec
Ducnet service status	NA
12V output status	OFF
COIL STATUS 1	OPEN
COIL STATUS 2	OPEN
COIL STATUS 3	OPEN
COIL STATUS 4	OPEN
Free space for data	96%
Supply voltage	12.49 V
Supercap voltage	11.70 V
Board temperature	30.31 C
CPU temperature	52.60 C

The following information is available:

- **Datalogger type:** Energy Bridge 5.0
- **Serial Number:** serial number of the datalogger, also present on the label.
- **Name:** name assigned to the datalogger, which can be edited in the menu **Parameters** (see par. 4.5.2).
- **General status:** indicates whether the data reading is correct for all instruments connected to the datalogger. It shows the same status information as the **STAT** front LEDs.
- **Release:** software release of the datalogger. It should always be indicated in requests for technical assistance.
- **Date and time:** date and time of the datalogger, normally updated by the date and time synchronization server.
- **Time since last reboot:** indicates how long the device has been powered on or restarted.
- **Measures saving time interval:** value of the measurement acquisition period in minutes.
- **Number of measures savings from midnight:** indicates the number of measurements saved since midnight of the day.
- **Measures acquisition time:** total reading time of all measurements from all configured instruments.
- **Ducnet service status:** represents the status of the Ducnet service. It can take three possible values: NA = inactive Ducnet service (Energy Bridge is in stand alone mode); OK = Ducnet service up and running; KO = Ducnet service up but not working.



- **12V output status:** indicates the status of the 12V output, it can be ON or OFF. For the description of the control logic, see chap. 5.3.
- **COIL STATUS 1:** indicates the status of the relay output OPEN or CLOSED. In stand alone mode, the output can be controlled by clicking on the status button in the **Value** column. With the Ducnet service active, the status button is in display only, the output status must be configured on the Ducnet platform.
- **COIL STATUS 2:** indicates the status of the relay output OPEN or CLOSED. In stand alone mode, the output can be controlled by clicking on the status button in the **Value** column. With the Ducnet service active, the status button is in display only, the output status must be configured on the Ducnet platform.
- **COIL STATUS 3:** indicates the status of the relay output OPEN or CLOSED. In stand alone mode, the output can be controlled by clicking on the status button in the **Value** column. With the Ducnet service active, the status button is in display only, the output status must be configured on the Ducnet platform.
- **COIL STATUS 4:** indicates the status of the relay output OPEN or CLOSED. In stand alone mode, the output can be controlled by clicking on the status button in the **Value** column. With the Ducnet service active, the status button is in display only, the output status must be configured on the Ducnet platform.
- **Free space for data:** percentage of free memory space for saving collected measurements.
- **Power voltage:** diagnostic information indicating the power supply voltage of the datalogger.
- **Supercap voltage:** diagnostic information indicating the supercap voltage of the datalogger.
- **Board temperature:** diagnostic information indicating the internal temperature of the datalogger.
- **CPU temperature:** diagnostic information indicating the CPU temperature of the datalogger.

4.3 Devices status

The **Devices status** menu provides a real-time overview of the operation of the instruments connected to the Energy Bridge. The instruments can be divided into three different categories: network analyzers, power factor correction controllers (PFCs) and environmental sensors.

DUCATI ENERGY BRIDGE 5.0 - Devices status					
Index	Description	Modbus node	OK readings	KO readings	Status
☐ 1	R8 485 radio	31	5729	0	OK
Cancel View Select a device and press View to access detailed information					

Each row of the table represents an instrument, identified by an **Index** and a **Description**, with an indication of the associated **Modbus node**. The **OK readings** and **KO readings** columns show the number of successful and failed readings.

The **Status** column indicates the operational status of the instrument, which can take the following values:

- OK = normal working instrument
- KO = instrument not working or not connected
- IN = instrument being initialized
- SC = standby instrument



- EC = instrument in configuration error
- UP = instrument with ongoing firmware update procedure

The EC status, instrument in configuration error, can be due to:

- incorrect configuration of the **Model**;
- **Model** configured correctly, but with firmware update of the instrument to be carried out manually via the Ducati Smart Energy smartphone application (only for PFCs with Ethernet communication interface).

It is possible to access the detail page of an instrument by selecting it from the list and clicking the **View** button.

DUCATI ENERGY BRIDGE 5.0 - Device status R8 485 radio	
Description	Value
Modbus status (Press the status value to enable or disable the STANDBY mode)	OK
OK readings	114110
KO readings	3367
Output status 01	OPEN
Output status 02	OPEN
Output status 03	CLOSED
Output status 04	OPEN
Output status 05	OPEN
Output status 06	OPEN
Output status 07	OPEN
Output status 08	CLOSED
Device model	341 - R8 485 RADIO
Firmware release	0.84
Firmware update status	
Frequency	50 Hz
3-phase voltage	393 V
3-phase current	1.040 A
3-phase power factor	1
3-phase active power	705 W
Avg 3-phase active power	*****
Max 3-phase active power	2007 W

An instrument detail page displays a table containing the following types of information:

- status information such as modbus communication status, OK readings, and KO readings;
- nameplate information such as device model and firmware release;
- device outputs status (if present in the instrument);
- measurements of the instrument (dependent on the map configured for it).

As far as the status of the outputs is concerned, if the instrument is of the analyzer or sensor type and has relay outputs programmed as outputs (not as alarms), clicking on the buttons in the **Output status** row switches the outputs from OPEN to CLOSED and vice versa. For PFC instruments, the status of the outputs is display only.

If the instrument status was never OK, measurements are not displayed.

4.4 System

General status	
Devices status	Data export
System	Software update
Configuration	PFC firmware update
Logout	Export modbus TCP slave map
	System reboot
	Delete data
	Ducnet enable
	Ducnet disable
	Remote assistance

The **System** menu consists of the following submenus:

- *Data export*
- *Software update*
- *PFC firmware update*
- *Export modbus TCP slave map*
- *System reboot*
- *Delete data*
- *Ducnet enable*
- *Ducnet disable*
- *Remote assistance*



4.4.1 Data export

This page allows you to export the file *export.xml* or *export.csv* with the measurements stored in the selected time period. The file format is configurable through the menu *Parameters* (see chap. 4.5.2). Pressing the *Accept* button the file is generated.

DUCATI ENERGY BRIDGE 5.0 - Data export	
Description	Value
Initial export date	01-12-2025
Final export date	11-12-2025

Once the file to be exported has been generated, the size indication is added. Pressing the *Download* button starts the download.

DUCATI ENERGY BRIDGE 5.0 - Data export	
Description	Value
Initial export date	18-05-2026
Final export date	14-06-2026
Generated file size	1356245 bytes

Exported data ready for download

4.4.2 Software update

This page allows you to perform the software update of the Energy Bridge.

DUCATI ENERGY BRIDGE 5.0 - Software update	
Description	Value
File name	Scegli file Nessun file selezionato

[Download last SW release](#)

By clicking on *Download last SW release*, the *UDMAfmw.tgz* file (which contains the most up-to-date software version available) is downloaded typically in the *Downloads* folder of the PC from which you are accessing the web server.



DUCATI ENERGY BRIDGE 5.0 - Software update

Description	Value
File name	Scegli file UDMAfmw.tgz

[Download last SW release](#)

Select the file just downloaded using the **Choose file** button. Clicking on **Accept** button starts the software update. At the end of the procedure, the datalogger is required to be restarted.

4.4.3 PFC firmware update

This page allows you to update the firmware of all the PFC configured to the latest version recommended for correct operation of the datalogger, if necessary.

DUCATI ENERGY BRIDGE 5.0 - PFC firmware update	
Description	Value
Confirm with password	

WARNING! THE FIRMWARE MAY BE AUTOMATICALLY UPDATED. IN THIS CASE THE PFC WILL RESTART AND THE INSERTED BATTERIES WILL BE DISCONNECTED

Insert the webserver password in the **Value** field and press the **Accept** button.

For each regulator, a comparison will be performed between the firmware version read by the instrument and the reference version. If an update is required:

- for regulators with RS485 or RADIO communication, the update will be performed automatically by the datalogger. The instrument status will temporarily change to UP; see chapter 4.3;
- for regulators with ETH communication, the update must be performed via the Ducati Smartenergy Android app. The instrument status will change to EC, and the instrument will not be queried until the manual update is performed.

WARNING: in case of an automatic update, the batteries on the regulator involved will be disconnected and the instrument will reboot.

4.4.4 Export modbus TCP slave map

Energy Bridge can be used as a Modbus TCP slave device making available the measurements read by the instruments. In particular, the measurements can be read by a Modbus TCP master device through the Read Holding Register function (function code 0x03).

For each configured instrument, the measurements read by the datalogger, defined by the **Device type** parameter, are made available in portions of adjacent addresses, which are dynamically defined according to the instruments configured at that moment.

This page allows you to generate and download a .csv file containing the description of the exposed modbus TCP slave map.



DUCATI ENERGY BRIDGE 5.0 - Export modbus TCP slave map

Description	Value
Export the csv file with the modbus TCP slave map data	☒ Enabled

Cancel

Accept

After clicking the **Enabled** checkbox, pressing the **Accept** button creates the *slave_modbusTCP.map.csv* file.

DUCATI ENERGY BRIDGE 5.0 - Export modbus TCP slave map

Description	Value
Export TCP slave map csv file	Enabled
Generated file size /udma/slave_modbusTCP_map.csv	4744 bytes

Download

File ready to download

Subsequently, through the **Download** button, it is possible to download the *slave_modbusTCP.map.csv* file locally.

	A	B	C	D	E
1	EnergyBridgeA24010013				
2	Modbus TCP Slave address	Instrument ID	Instrument name	Measure	Instrument map address
3	0			Instruments status (bit-field)	
4	1	1 R8 485 radio	Frequency		2
5	3	1 R8 485 radio	3-phase voltage		4
6	17	1 R8 485 radio	3-phase current		18
7	25	1 R8 485 radio	3-phase power factor		26
8	33	1 R8 485 radio	3-phase active power		34
9	35	1 R8 485 radio	Avg 3-phase active power		36
10	37	1 R8 485 radio	Max 3-phase active power		38
11	39	1 R8 485 radio	3-phase apparent power		58
12	41	1 R8 485 radio	Avg 3-phase apparent power		60

The file contains a first line in which the serial number of the datalogger is present.

The table shows the following fields:

- **Modbus TCP Slave address**: address exposed in the Modbus TCP slave map of the datalogger
- **Instrument ID**: index of the instrument visible on the *Devices status* page
- **Instrument name**: name of the instrument
- **Measure**: description of the measure
- **Instrument map address**: address of the selected measurement in the Modbus map of the specific instrument



The **Instrument map address** allows you to trace, through the Modbus RTU or Modbus TCP protocol manuals of the instrument, the information relating to the data type of the measurement, as it is displayed in the Modbus TCP slave map with the same format inherited from the specific instrument. The protocol manuals are available on the website www.ducatienergia.com.

The register at address 0 of the Modbus TCP slave map, to be interpreted as bit-field, contains the status of the connected instruments (up to a maximum of 16). The bits are intended from least significant to most significant assigned to the instrument with instrument ID of 1 and instrument with instrument ID of 16, respectively. The meaning of the bit is as follows: 1 = instrument in the OK state, 0 = instrument in one of the other states (see chapter 4.3).

The Modbus TCP slave map is available on the port specified in the configuration parameter **Modbus TCP slave server port** (see chap. 4.5.2) on the ETH1, ETH2 and WiFi interfaces.

4.4.5 System reboot

This page allows you to restart the Energy Bridge. You can specify a time in seconds before the software restart is performed.

DUCATI ENERGY BRIDGE 5.0 - System reboot

Description	Value
Time in seconds before system reboot	5

When the **Accept** button is pressed, the indication of the time required for the system to restart appears, after which you can log in again.

DUCATI ENERGY BRIDGE 5.0 - System reboot

Description	Value
Time in seconds before system reboot	5

System reboot, wait about two minutes and then log in again

4.4.6 Delete data

This page allows you to delete the measurements stored in the Energy Bridge memory. It is possible to set the date until which the measurements are deleted.

**DUCATI ENERGY BRIDGE 5.0 - Delete data**

Description	Value
Until the date	12-12-2024
ATTENTION IRREVERSIBLE OPERATION CONFIRM WITH PASSWORD !!!	

This operation is IRREVERSIBLE and requires the entry of the webserver password.

Press the *Accept* button to perform the operation.

4.4.7 Ducnet enable

NOTE 1: the Ducnet service requires internet access from the Energy Bridge. The datalogger must therefore be connected to a network with internet access through the ETH1 interface, the ETH2 interface or the WiFi interface.

NOTE 2: if, at the time of activation, power factor correction regulators are already configured, two virtual devices (necessary for the additional functionalities present on the platform) will be automatically added for each of them.

This page is dedicated to the activation procedure of the Ducnet service. The parameters required for activation are: the *Ducnet username*, the *Ducnet password* and the *Ducnet tenant* received by email during the registration procedure on the Ducnet platform.

DUCATI ENERGY BRIDGE 5.0 - Ducnet enable

Description	Value
Ducnet username	
Ducnet password	
Ducnet tenant	

After entering the required credentials, press the *OTP request* button. A second page will then appear. Enter the 6-digit numeric code received at the email address associated with the entered Ducnet credentials in the *OTP Code* field. Pressing the *Accept* button starts the activation procedure.

DUCATI ENERGY BRIDGE 5.0 - Ducnet enable

Description	Value
OTP code	

The outcome of the operation is communicated after a few seconds.



The activation of the Ducnet service keeps the operation of the menus on the web server of the datalogger unaltered, with the exception of the **Configuration** menu that becomes read-only.

WARNING: If both of the following conditions are present:

- the datalogger has been reset to factory settings (see chapter 5.2.2) without having performed the Ducnet deactivation procedure (see chapter 4.4.8);
- the ongoing Ducnet activation is required on the same Ducnet tenant to which the datalogger is already associated;

a third page will appear.

DUCATI ENERGY BRIDGE 5.0 - Ducnet enable

Warning!! The datalogger you are trying to enable is already present on Ducnet and is associated with the same tenant.

Press "Cancel" to cancel the enabling.

Press "Send configuration from datalogger" to send the configuration currently present on the datalogger and irreversibly delete the one present on Ducnet.

Press "Import configuration from Ducnet" to import the existing configuration from Ducnet and irreversibly overwrite the one present on the datalogger.

Cancel

Send configuration from datalogger

Import configuration from Ducnet

Three buttons are present:

- **Cancel:** to cancel the activation;
- **Send configuration from datalogger:** pressing this button sends the configuration currently present on the datalogger and irreversibly deletes the one present on Ducnet;
- **Import configuration from Ducnet:** pressing this button imports the existing configuration from Ducnet and irreversibly overwrites the one present on the datalogger.

NOTE: if the Ducnet tenant is different from the previous one, the activation procedure will automatically continue with the deletion of the datalogger from the previous tenant and activation on the new one.



4.4.8 Ducnet disable

This page implements the procedure for deactivating the Ducnet service. The parameters required for deactivation are the same as those presented in the paragraph dedicated to activation (see chap. 4.4.7). This operation is IRREVERSIBLE and requires the entry of the webserver password.

DUCATI ENERGY BRIDGE 5.0 - Ducnet disable	
Description	Value
Ducnet username	
Ducnet password	
Ducnet tenant	
WARNING IRREVERSIBLE OPERATION. CONFIRM WITH WEBSERVER PASSWORD !!!	

Pressing the **OTP request** button displays a second screen where you must enter, in the **OTP Code** field, the 6-digit numeric code received at the email address associated with the entered Ducnet credentials.

DUCATI ENERGY BRIDGE 5.0 - Ducnet disable	
Description	Value
OTP code	

Pressing the **Accept** button starts the deactivation procedure and after a few seconds the result is displayed.

The deactivation of the service is an IRREVERSIBLE operation even on the Ducnet platform, data present in it are deleted and it is no longer possible to recover them even by requesting the assistance services of the Ducnet platform.

4.4.9 Remote assistance

This page allows you to activate remote assistance.

Activation through this page must be carried out at the end of the assistance request procedure which includes:

- communicate the request for assistance to Ducati energia via the supporto_analizzatori@ducatienergia.com e-mail address;
- take an appointment for assistance through a Ducati energia operator;
- activation of the communication channel between datalogger and operator through the activation of remote assistance.

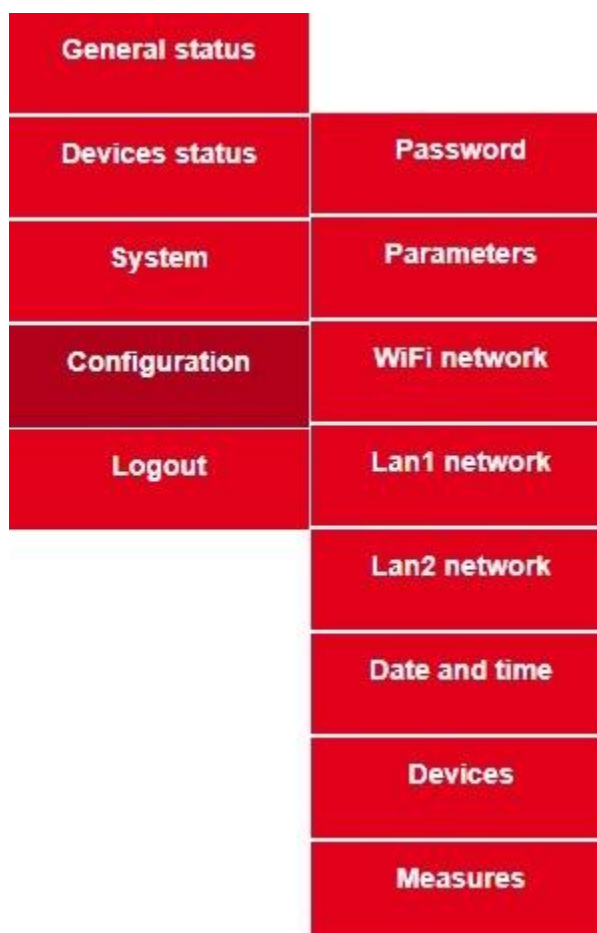


DUCATI ENERGY BRIDGE 5.0 - Remote assistance

Description	Value
REMOTE ASSISTANCE ACTIVATION CONFIRM WITH PASSWORD!!!	

This operation requires entering the webserver password. When the *Accept* button is pressed, activation starts and after a few seconds the result of the operation is displayed.

4.5 Configuration



The *Configuration* menu consists of the following submenus:

- *Password*
- *Parameters*
- *WiFi network*
- *Lan1 network*



- *Lan2 network*
- *Date and time*
- *Devices*
- *Measures*

4.5.1 Password

The *Password* submenu manages the change of the password for accessing the webserver.

DUCATI ENERGY BRIDGE 5.0 - Password

Description	Value
Old password	
New password	
Repeat again new password	

Password characteristics: minimum length 10 characters, at least one lowercase letter, at least one uppercase letter, at least one number

The password validity requirements are:

- minimum length of 10 characters;
- at least one lowercase letter;
- at least one uppercase letter;
- at least one number.

The factory default password is: *Ducati_182*.

After filling in all the required fields, press *Accept* to confirm the change.



4.5.2 Parameters

The *Parameters* submenu allows you to view and modify the Energy Bridge operating parameters.

DUCATI ENERGY BRIDGE 5.0 - Parameters	
Description	Value
Description	Energy Bridge 5.0 Test
Address	
Measurement acquisition period in minutes	15
Export data format	☐ Xml file ☒ Csv file - measures in column
Modbus TCP slave server port	1542
Automatic web page refresh (0=no refresh, minimum 4 seconds)	10
Web interface language selection	English ▾
Time zone	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna ▾

The parameters present are the following:

- **Description:** name of the datalogger reported in *General status* and on exported files.
- **Address:** free field to enter location information.
- **Measurement acquisition period in minutes:** measurement storage period in permanent memory. The value is fixed at 15 minutes and cannot be changed.
- **Export data format:** data format in which the file containing the data to be exported is generated. It can be *Xml file* or *Csv file - measures in column*.
- **Modbus TCP slave server port:** port used to read the measurements of the Modbus TCP slave map presented by the datalogger (see chap. 4.4.4).
- **Automatic web page refresh (0=no refresh, minimum 4 seconds):** time period in which the automatic refresh of the display pages of the instruments takes place.
- **Web interface language selection:** available languages are Italian and English.
- **Time zone:** time zone of the location where the datalogger is installed.

Pressing the *Accept* button applies the parameter changes.



4.5.3 WiFi network

This submenu allows the configuration of the WiFi interface.

DUCATI ENERGY BRIDGE 5.0 - WiFi network	
Description	Value
Network address type	☐ Static ☒ Dynamic
Network IP address	
Subnet mask	
Gateway address	
DNS server	
WiFi interface	☒ Enabled
SSID access point	
Password Wpa	

The parameters present are the following:

- **Network address type:** static or dynamic address. Select Dynamic only if there is a DHCP server on the network from which the network address of the Energy Bridge can be retrieved.
- **Network IP address:** shows the set or received IP address.
- **Subnet mask:** shows the the set or received subnet mask.
- **Gateway address:** address of the network gateway. If the network type is dynamic, it reports the gateway address received from the DHCP server. The gateway is the device that connects the Energy Bridge to the internet.
- **DNS server:** address of the DNS server.
- **WiFi interface:** checkbox for enabling/disabling the WiFi interface.
- **SSID access point:** name of the WiFi network you want to connect to.
- **Password WPA:** WPA password of the WiFi network you intend to connect to.

Pressing the **Accept** button saves the parameters on this page. To apply the parameters you have just saved is necessary to reboot the device.



4.5.4 Lan1 network

This page configures the ETH1 network port, on the front of the instrument, which is usually used for initial setup and maintenance.

DUCATI ENERGY BRIDGE 5.0 - Lan1 network	
Description	Value
Network address type	☒ Static ☐ Dynamic
Network IP address	192.168.0.111
Subnet mask	255.255.255.0
Gateway address	
DNS server	

The parameters present are the following:

- **Network address type:** static or dynamic address. Select Dynamic only if there is a DHCP server on the network from which the network address of the Energy Bridge can be retrieved.
- **Network IP address:** shows the set or received IP address.
- **Subnet mask:** shows the the set or received subnet mask.
- **Gateway address:** The address of the network gateway. If the network type is dynamic, it reports the gateway address received from the DHCP server. The gateway is the device that connects the Energy Bridge to the internet. Normally not programmed for LAN1.
- **DNS server:** The address of the DNS server.

Pressing the **Accept** button saves the parameters on this page. To apply the parameters you have just saved is necessary to reboot the device.

WARNING: do not change these parameters without considering the consequences.

WARNING: Lan1 and Lan2 cannot be configured in the same subnet. Also check that this does not occur in the case of dynamic addressing.



4.5.5 Lan2 network

This page configures the ETH2 network port, usually used to read data from Modbus TCP-connected instruments and/or to send data to the Ducnet platform.

DUCATI ENERGY BRIDGE 5.0 - Lan2 network	
Description	Value
Network address type	☐ Static ☒ Dynamic
Network IP address	192.168.1.3
Subnet mask	255.255.255.0
Gateway address	192.168.1.1
DNS server	

The parameters present are the following:

- **Network address type:** static or dynamic address. Select Dynamic only if there is a DHCP server on the network from which the network address of the Energy Bridge can be retrieved.
- **Network IP address:** shows the set or received IP address.
- **Subnet mask:** shows the the set or received subnet mask.
- **Gateway address:** The address of the network gateway. If the network type is dynamic, it reports the gateway address received from the DHCP server. The gateway is the device that connects the Energy Bridge to the internet. Normally not programmed for LAN2.
- **DNS server:** The address of the DNS server.

Pressing the **Accept** button saves the parameters on this page. To apply the parameters you have just saved is necessary to reboot the device.

WARNING: do not change these parameters without considering the consequences.

WARNING: Lan1 and Lan2 cannot be configured in the same subnet. Also check that this does not occur in the case of dynamic addressing.



4.5.6 Date and time

This submenu allows you to configure the date and time.

DUCATI ENERGY BRIDGE 5.0 - Date and time	
Description	Value
Date	11-12-2025
Time	16:34:01
NTP server address	193.204.114.232
Backup NTP server address	

The parameters present are the following:

- **Date**: enter the date in dd-mm-yyyy format
- **Time**: enter the time in hh:mm:ss format
- **NTP server address**: address of the NTP server to be used for synchronization
- **Backup NTP server address**: address of the backup NTP server to be used for synchronization

The synchronization of the date and time can be manual, i.e. by setting the **Date** and **Time** parameters, or automatic by setting the address of one or two NTP servers, i.e. the parameters **NTP server address** and **Backup NTP server address**. NTP servers provide the exact time to the datalogger, ensuring that the internal clock is always synchronized with a reference standard. Typically, you enter the address of the NTP server provided by your network administrator or a public service.

4.5.7 Devices

The **Devices** submenu manages the creation, modification, and deletion of devices connected to Energy Bridge. The instruments can be divided into three different categories: network analyzers, power factor correction controllers, and environmental sensors.

4.5.7.1 Device creation

You can create a new device by pressing the **New** button.

DUCATI ENERGY BRIDGE 5.0 - Devices			
Index	Description	Type	Modbus node
New			

You will be taken to the detail page of the device you want to configure.

**DUCATI ENERGY BRIDGE 5.0 - New device**

Description	Value
Device name	R8 485 radio
Device type	Ducati PFC Extended Map
Modbus RTU Slave ID or Modbus TCP address [IP:Port]	31
Radio	☐ Enabled
Model	341
Modbus communication	☒ Enabled

Cancel

Accept

WARNING! IF A PFC IS CONFIGURED, THE FIRMWARE MAY BE AUTOMATICALLY UPDATED. IN THIS CASE THE PFC WILL RESTART AND THE INSERTED BATTERIES WILL BE DISCONNECTED

The parameters to be entered are:

- **Device name:** name assigned to the instrument.
- **Device type:** it is the map of measurements acquired by the instrument that are managed by the datalogger.
- **Modbus RTU Slave ID or Modbus TCP address [IP:Port]:** This is the address used by the communication protocol. In the case of Modbus RTU protocol on RS485 or RADIO, the address can take a value in the range [0; 239]. In the case of Modbus TCP over ethernet protocol, the address is in the format IP:Port (Example: 192.168.1.239:502).
- **Radio:** RADIO communication enabling checkbox.
- **Model:** numeric index of the instrument model, see the following tables to obtain the correct one starting from the name of the instrument indicated on the identification plate.
- **Modbus communication:** checkbox for enabling communication between datalogger and instrument.

For instruments with RS485 interface, the communication parameters to be used for their configuration are:

- Baudrate: 9600 bit/s
- Parity: N (None)
- Number of stop bits: 1

NOTE: each instance configured in the **Devices** menu represents a virtual device. In fact, it is possible to monitor the same physical instrument at the same time with different maps depending on the measurements of interest. The maximum number of virtual instruments is 120.

WARNING: if more than one power factor correction regulator with RADIO communication are going to be configured:

- each of them must have a different address, even if different radio channels are used (refer to the controller user manuals);



- add one controller at a time and wait for the automatic RADIO calibration procedure to complete before adding the next one. You can monitor the progress via the **Devices status** menu (see chap. 4.3): during RADIO calibration, the newly added controller remains in the IN state; upon completion, it will switch to OK, KO, or EC. During RADIO calibration of a newly added controller, other already configured RADIO controllers may temporarily enter the KO state.

NOTE: each time the data logger restarts, RADIO calibration is re-performed for all controllers configured with RADIO communication.

For power factor controller, the following table shows the list of models and for each of them the model ID to insert in the **Model** field and the possible assignable maps.

Model	ID	Communication interfaces			Ducati PFC Extended Map	Ducati PFC Reduced Mix Map (Only Radio and RS485)
		RS485	Radio	ETH		
R5 485	101	x			x	x
R5 RADIO	300		x		x	x
R5 RADIO 485	301	x	x		x	x
R8 485	141	x			x	x
R8 ETH	142			x	x	
R8 485 USB	145	x			x	x
R8 485 BT	146	x			x	x
R8 ETH USB	147			x	x	
R8 ETH BT	148			x	x	
R8 RADIO	340		x		x	x
R8 485 RADIO	341	x	x		x	x
R8 ETH RADIO	342		x	x	x	x
R8 USB RADIO	343		x		x	x
R8 BT RADIO	344		x		x	x
R8 485 USB RADIO	345	x	x		x	x
R8 485 BT RADIO	346	x	x		x	x
R8 ETH USB RADIO	347		x	x	x	x
R8 ETH BT RADIO	348		x	x	x	x
R14	800		x		x	x
R14 485	801	x	x		x	x
R14 ETH	802		x	x	x	x
R14 485 BT	805	x	x		x	x
R14 485 AI	817	x	x		x	x
R14 485 29R	809	x	x		x	x
R14 485 29R AI	833	x	x		x	x

Creating a power factor controller with RS485 or RADIO communication interface, if necessary, the instrument firmware update procedure is automatically carried out with subsequent disconnection of the capacitor steps and restart of the device.

For environmental sensors, the following table shows the list of models and for each of them the model ID to insert in the **Model** field and the possible assignable maps.

Model	Communication interface RS485	ID	Ducati THI Sensor	Irradiation Sensor	External Temperature Sensor
Ducati THI	x	1002	x		
Irradiation Sensors SI-RS485	x	1003		x	
Temperature Sensor TQS3	x	1004			x



For network analyzers, the following table shows the list of models and for each model ID to insert in the **Model** field and the possible assignable maps.

Model	ID	Communication interfaces		Ducati Analyzer	Ducati Analyzer - Harmonics (Only Modbus TCP)	Ducati Rogowski Analyzer - V/I/P/Peaks	Ducati Rogowski Analyzer - Energies/Averages	Ducati Rogowski Analyzer - Harmonics	Ducati Meter DEConto
		RS485	ETH						
Mach Smart trifase 5A	9	x		x					
Mach Smart trifase 50A	10	x		x					
Mach Smart trifase DARK 5A	11	x		x					
Mach Smart trifase DARK 50A	12	x		x					
Mach Smart monofase 5A	13	x		x					
Mach Smart monofase 50A	14	x		x					
Mach Smart 96	15	x		x					
Mach Smart monofase 5A DARK 230/240Vac	16	x		x					
Smart Piu' 5A	20	x		x					
Smart Piu' 5A 2P	21	x		x					
Smart Piu' 5A KVAh	22	x		x					
Smart Piu' 5A KVAh 2P	23	x		x					
Smart 96 Piu' 5A	25	x		x					
Smart 96 Piu' 5A 2P	26	x		x					
Smart 96 Piu' 5A KVAh	27	x		x					
Smart 96 Piu' 5A KVAh 2P	28	x		x					
Smart Piu' 1A	29	x		x					
Smart Piu' 1A 2P	30	x		x					
Smart Piu' 50A	31	x		x					
Smart Piu' 50A 2P	32	x		x					
Smart 96 Piu' 1A	33	x		x					
Smart 96 Piu' 1A 2P	34	x		x					
Smart 96 Piu' 50A	35	x		x					
Smart 96 Piu' 50A 2P	36	x		x					
Duca-LCD96 BASE-485	55	x		x					
Duca-LCD96 485	57	x		x					
Duca-LCD96 485-RELE	58	x		x					
Duca-LCD96 485-IO	59	x		x					
Smart Piu' 1A KVAh	60	x		x					
Smart Piu' 1A KVAh 2P	61	x		x					
Smart Piu' 50A KVAh	62	x		x					
Smart Piu' 50A KVAh 2P	63	x		x					
Smart 96 Piu' 1A KVAh	64	x		x					
Smart 96 Piu' 1A KVAh 2P	65	x		x					
Smart 96 Piu' 50A KVAh	66	x		x					
Smart 96 Piu' 50A KVAh 2P	67	x		x					
Duca-LCD96 ETH	71		x	x					
Duca-LCD ETH	75		x	x	x				
Duca-LCD 485	76	x		x					
Duca-LCD 485-ETH	77	x	x	x	x				
DUCA 47	80	x		x					
DE-RW-485	1009	x				x	x	x	
DE-RW-ETH	1010		x			x	x	x	
DE-RW96-485	1011	x				x	x	x	
DE-RW96-ETH	1012		x			x	x	x	
DEConto-T80R	1013	x							x
DEConto-T80E	1014		x						x
DEConto-T6R	1015	x							x
DEConto-T6E	1016		x						x
DEConto-S40R	1017	x							x
DEConto-S80R	1018	x							x
DEConto-S80E	1019		x						x

The device thus created is inserted in the table of configured devices. For each device are shown the **Index**, the **Description**, the **Type** of Modbus map and the address of the **Modbus node**.

**DUCATI ENERGY BRIDGE 5.0 - Devices**

Index	Description	Type	Modbus node
○ 1	R8 485 radio	Ducati PFC Extended Map	31

New

Modify

Delete

Copy device

Below the list of configured devices are buttons for creating a *New* one, *Modify*, *Delete* and *Copy* the devices.

4.5.7.2 Modify device

The submenu *Devices* presents the table of configured devices. Selecting an instrument and clicking on the *Modify* button, you can change the parameters of the instrument (see chap. 4.5.7.1).

DUCATI ENERGY BRIDGE 5.0 - Modify device

Description	Value
Device name	R8 485 radio
Device type	Ducati PFC Extended Map ▼
Modbus RTU Slave ID or Modbus TCP address [IP:Port]	31
Radio	☐ Enabled
Model	341
Modbus communication	☒ Enabled

Cancel

Accept

Similarly, by clicking on the *Copy device* button you can configure a new device with the same type of map and the same measures to be monitored (see chapter 4.5.8).

DUCATI ENERGY BRIDGE 5.0 - Copy device

Description	Value
Device name	
Device type	Ducati PFC Extended Map
Modbus RTU Slave ID or Modbus TCP address [IP:Port]	
Radio	☐ Enabled
Model	341
Modbus communication	☒ Enabled

Cancel

Accept

WARNING! IF A PFC IS CONFIGURED, THE FIRMWARE MAY BE AUTOMATICALLY UPDATED. IN THIS CASE THE PFC WILL RESTART AND THE INSERTED BATTERIES WILL BE DISCONNECTED



4.5.7.3 Delete device

Deleting an instrument is done by selecting the instrument in the table of configured instruments and pressing the *Delete* button.

4.5.8 Measures

This submenu manages the configuration of the measurements to be stored for a given instrument.

DUCATI ENERGY BRIDGE 5.0 - Devices measures			
Index	Description	Type	Modbus node
☐ 1	R8 test	Ducati PFC Extended Map	31
☐ 2	test	Ducati PFC Extended Map	31

4.5.8.1 New measure

Selecting an instrument and clicking *Accept* will take you to the selection page for the measurements to be stored for that instrument.

DUCATI ENERGY BRIDGE 5.0 - Measures R8 485 radio			
Index	Description	UM	Modbus address

On this page you can add the measurements to be saved by clicking on the *New* button.

NOTE: the initial list is empty.

DUCATI ENERGY BRIDGE 5.0 - New measure R8 485 radio	
Description	Value
Measure	3-phase voltage
Substitute description	
Substitute measure unit	
Divider	
Previous value delta	☐ Enabled

The parameters relating to the measurement to be saved are as follows:

- **Measure:** select the measure you want to save from the proposed list.



- **Substitute description:** replacement description, if any, used in the exported file (in .xml or .csv format)
- **Substitute measure unit:** replacement measure unit, if any, used in the exported file (in .xml or .csv format)
- **Divider:** divider applied to the measure, used in the exported file (in .xml or .csv format)
- **Previous value delta:** application, for the given measure, of the calculation of the differential value with respect to the previous value, which is used in the exported file (in .xml or .csv format)

If the instrument is not in the OK state, it is not possible to select the measurements to be saved, the **Measure** field has an empty selection list.

Once the measurements have been added, the page shows the list of measurements to be saved in memory. For these measurements it is possible to make changes by selecting the desired one and clicking the **Modify** button. You can also delete a measurement by selecting it and clicking on the **Delete** button.

DUCATI ENERGY BRIDGE 5.0 - Measures R8 485 radio			
Index	Description	UM	Modbus address
☐ 1	3-phase voltage	V	3
☐ 2	3-phase current	A	17

4.5.8.2 Copying measures

Selecting an instrument and clicking **Copy measures** you can copy all the measures of the selected device to another device. In the next page, select a device and click the **Paste** button to paste the copied measures.

DUCATI ENERGY BRIDGE 5.0 - Copy measures R8 485 radio			
Index	Description	Type	Modbus Node
☒ 1	R8 test	Ducati PFC Extended Map	31

4.6 Logout

This menu logs you out of the webserver and returns you to the login page.



5 ADDITIONAL FEATURES

5.1 Data format of exported measurements

The format of the .csv file generated for the export of the saved data (see chap. 4.4.1) is as in the following example:

	A	B	C	D	E	F	G
1	EnergyBridge						
2	Serial number	A24010002					
3	ID	EnergyBridgeA24010002					
4	Name	Energy Bridge Test					
5	Date	19/12/2025					
6	Slot	Time	R5 test_32	R5 test_32	R5 test_32	R5 test_32	R5 test_32
7			R5 test_32_1_1	R5 test_32_1_0	R5 test_32_1_2	R5 test_32_1_5	R5 test_32_1_3
8			3-phase voltage	Frequency	3-phase current	Avg 3-phase active power	3-phase power factor
9			V	Hz	A	W	
10	1	00.15.00	388.000	50.000	0.040	1.000	-0.060
11	2	00.30.00	389.000	50.000	0.040	1.000	-0.070
12	3	00.45.00	389.000	50.000	0.040	1.000	-0.060
13	4	01.00.00	390.000	50.000	0.040	1.000	-0.060
14	5	01.15.00	390.000	50.000	0.040	1.000	-0.060
15	6	01.30.00	390.000	50.000	0.040	1.000	-0.060
16	7	01.45.00	390.000	50.000	0.040	1.000	-0.060
17	8	02.00.00	390.000	50.000	0.040	1.000	-0.070
18	9	02.15.00	390.000	50.000	0.040	1.000	-0.060
19	10	02.30.00	390.000	50.000	0.040	1.000	-0.070

5.2 Button functionality

The button on the front panel of the instrument implements two different functions related to the duration of the press.

5.2.1 Copying data to a USB flash drive

Insert a USB flash drive and press the button for less than 10 seconds. All data stored in the data logger's memory will be copied. The "csv" folder will be created on the flash drive containing a daily file for each day with at least one saved data.

5.2.2 Resetting to factory defaults

WARNING: Resetting to the factory defaults will IRREVERSIBLY delete all configurations and data saved on the data logger.

To perform a reset:

- restart the data logger by removing and reconnecting power or pressing the reset button;
- after at least one of the three LEDs in the STAT area has lit up and within 2 minutes of restarting, press and hold the button for at least 60 seconds;
- when the button is released, the reset will be confirmed by the simultaneous lighting of the 3 LEDs in the STAT area for 5 seconds.

5.3 Output for external sensor power supply

The activation of the 12V output is linked to the presence of sensors with model IDs of 1002, 1003 or 1004 (see chap. 4.5.7.1): when at least one of these instruments is configured, the datalogger will activate it automatically.



NOTE: In order for the output to turn off, after removing all the instruments from the previous list from the configuration, it is necessary to restart the datalogger.

WARNING: after the activation of the Ducnet service, the status of the exit is defined by the configuration on the platform.