

OBOX



GATEWAY DATALOGGER

- 1 ETHERNET PORT
- 2 USB PORTS
- CLOUD CONNECTION
- EDS BUS COMMUNICATION
- INTEGRATION OF THIRD-PARTY SYSTEMS
- INTERNET CONNECTION VIA
ETHERNET/LAN OR DATA SIM CARD
- STANDARD 9-WAY DIN-RAIL MOUNT

RoHS



OBox is the gateway of the OVER energy management and indoor air quality system able to connect the network of EDS devices (OMeter, NanOMeter, OSensor, etc.) with the OVER infrastructure cloud platform, through an ETHERNET/LAN port or DATA SIM card. The connection between the OBox and the cloud complies with the highest IT security requirements, allowing communication on the local network even in sensitive environments such as banks. The OBox is designed for standard 9-way DIN-rail mount.

DATA SHEET

MODEL	OBox
PRODUCT CODE	OBB
CERTIFICATIONS	RoHS, CE UAE RoHS, ECAS
SIZE	159x90x63mm - 9 DIN modules
WEIGHT	340g
POWER SUPPLY	12÷15Vdc from EDS Bus
CURRENT DRAW	max 1A, average 200mA
BUS COMMUNICATION	EDS, MODBUS
INTERNET CONNECTION	Connectivity through Ethernet or by using internet stick (not included)
CLOUD COMMUNICATION PROTOCOL	HTTPS
DISPLAY	Monochromatic LCD 1.53x1.38 inch for working operational icons
OPERATING TEMPERATURE	min -10°C max 50°C
WAREHOUSING TEMPERATURE	min -40°C max 80°C

INSTALLATION INSTRUCTIONS

SAFETY

In order to maintain these conditions and ensure safe use, the user must follow the indications and markings contained in the following instructions.

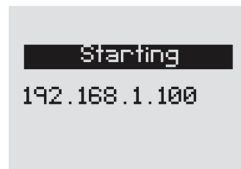


- Upon receipt of the instrument, before proceeding with the installation, check that it is intact and has not been damaged during transport.
- Check that the operating voltage and the mains voltage coincide and then proceed with the installation.
- The instrument power supply must not be grounded.
- The instrument does not have a fuse to protect the power supply, so it must be protected by the installer
- Maintenance and/or repair operations must be performed only by qualified and authorized personnel.
- If you suspect that the instrument is no longer safe, remove it from service and ensure that it is not used inadvertently
- Dangerous voltages can be present in the terminals of the instruments. Following standard safety precautions before performing any installation or service activity.
- The instrument and its connections must be properly protected.
- The instrument must be installed following all local regulations.

OPERATION

Once the BUS is connected, the OBox will start in about 1 minute and messages will appear on the display. A longer start-up time may indicate a lack of DHCP service by the router or a failure to connect the Ethernet cable to the OBox and/or router. During the start-up phase the two progress bar described below will be shown on the display.

Screen 1



Screen 2



Screen 1

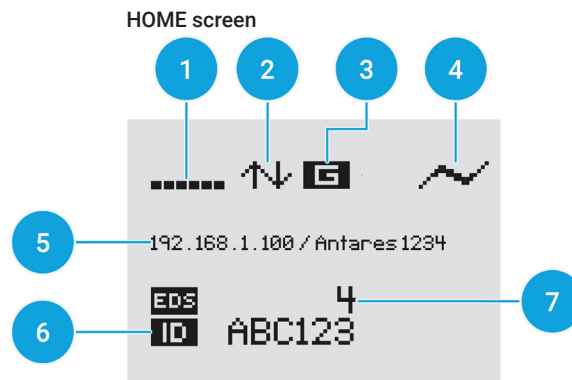
After connecting the OBox, wait for approximately 30 seconds to display the start-up screen on the LCD monitor. The code that appears under the heading "starting" ("192.168.1.100" in the example in figure 2) is the IP address that the Obox has acquired from the router.

Screen 2

The second screen indicates that the Obox can be reached via Ghost for any remote access/assistance services. The alphanumeric code ("ABC123" in the example in figure 2) that appears above the IP address is the identification of the system (ID) while the progress bar at the bottom indicates the stage of the start-up procedures.

Screen 3

At the end of the start-up procedure, the system's "home" screen will pop up as demonstrated in the figure below.



HOME screen

- 1 Mobile signal power:** indicates the signal strength in case the OBox has been connected to the internet via an internet key.
- 2 Network connection:** the presence of this symbol indicates that the OBox is connected to a local network.
- 3 Cloud:** indicates that the OBox can be reached remotely via the Over cloud service.
- 4 Power supply:** indicates that the OBox is correctly powered by BUS.
- 5 IP:** The IP alternates with the software version installed on the OBox (in the example figure the version name is Antares1234), with the configuration and with the date.
- 6 ID:** unique identification of the OBox useful in case of assistance, maintenance and remote access through the Cloud platform.
- 7 Messages per second:** it is indicative of the traffic on the BUS (number of messages per second). Values above 30 indicate that the BUS (in normal operation) is congested. However, high values are permissible during scanning/ programming (up to 100 messages per second).

The OBox is equipped with 3 buttons, located on the opposite side of the BUS and network inputs. The "ON / OFF" button performs a forced shutdown of the OBox. The Display will then be turned off immediately. Unlike the other two, this button needs a long press. The "SOFT HALT" button performs a safe shutdown of the OBox. It should therefore always be considered the preferred option, when possible, switching the device ON / OFF. The "REBOOT" button performs a restart of the software application.

Screen 4



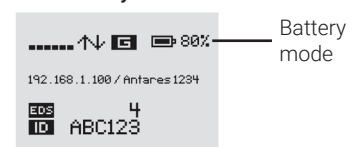
Screen 5



Screen 6



Particular symbols



Screen 4/5

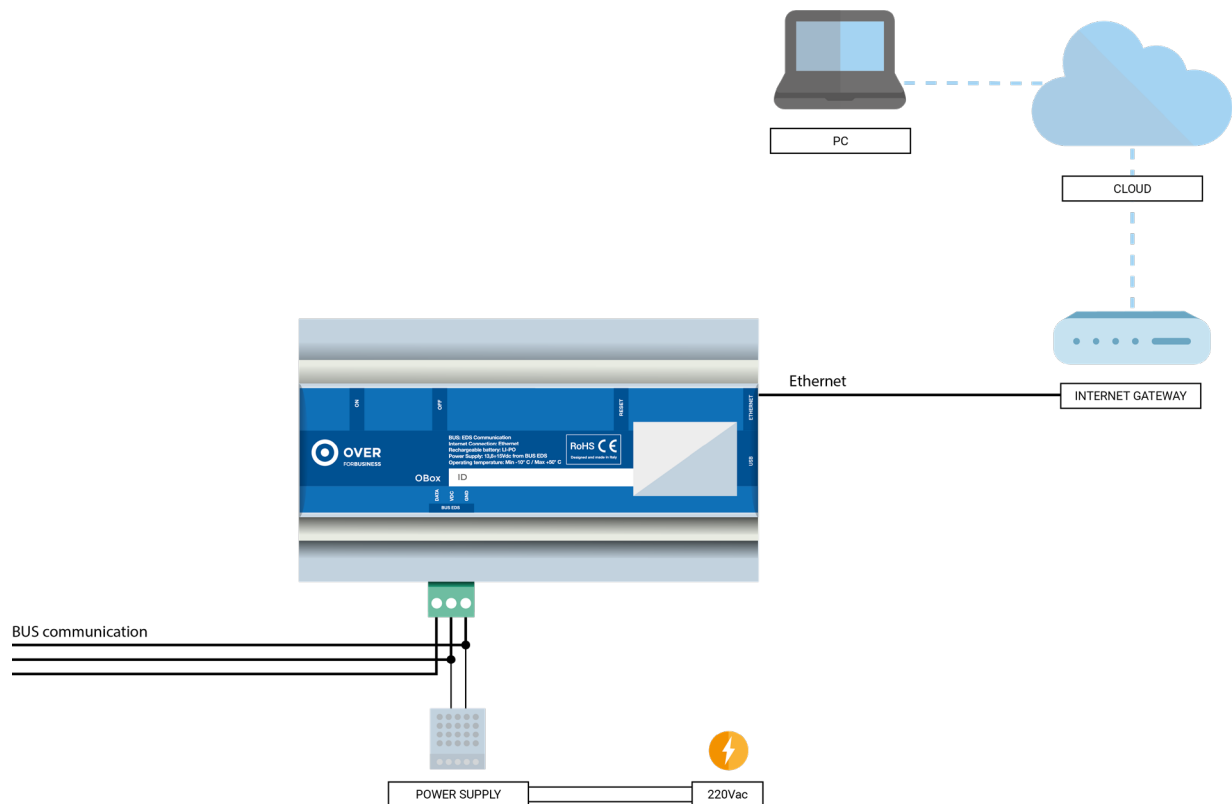
It indicates that the shutdown of the OBox is occurring when the SOFT HALT button on the top of the device is pressed. Rarely should the screen remain blocked on-screen n°4 even if the switch-off has already taken place. In this circumstance, it is acceptable to disconnect and re-connect the power supply in order to force a restart of the OBox.

Screen 6

It indicates that the OBox is restarting when the "REBOOT" button on the top of the device is pressed.

When the power turns to battery mode, the icon labeled 'battery mode' appears with a percentage of the remaining charge. This icon replaces the standard icon no. 4 of the HOME screen, until battery mode is no longer active.

CONNECTION EXAMPLE



ASSISTENCE

WARRANTY

This product is guaranteed against any material and manufacturing defects according to the period established by law from the date of purchase, even if the product has not been installed. The warranty period starts from the moment of purchase. The buyer must report any defects in the delivered products in writing to Over S.p.A.: the communication must contain a description of the reasons for defects and/or discrepancies, also indicating the serial number, the delivery date, the delivery number and date of the transport document or invoice.

The Supplier's warranty does not extend to products that are defective and/or damaged due to natural attrition or breakdown caused by improper use or an operating procedure not contemplated in this manual, of negligence, or are tampered with or repaired by third parties or accidentally damaged caused by atmospheric agents, or firmware updates.

The warranty intervention by the Supplier remains subject to the Buyer's compliance with the payment conditions as well as the technical evaluation of the existence of the warranty conditions verified by Over S.p.A. During the warranty period, Over S.p.A. undertakes to repair or replace, free of charge, those products that have manufacturing defects or bad quality at its headquarters.

RETURN AND REPAIR PROCEDURE

All returned products must be returned in the same condition in which they were supplied at the Buyer's expense, to the headquarters of Over S.p.A. in Viale Piemonte 37 - 20093 Cologno Monzese (MI) and packed by the Buyer in order to avoid damages for which the Buyer himself would be responsible. No return of goods will be accepted in the absence of authorization by Over S.p.A. to the Buyer.

No refund, even if authorized, will be accepted if the information regarding quantity, type of device returned and reason for return is not included in the transport document or the accompanying letter.

Products not covered by the warranty will be returned to the Buyer at his own expense and charged to him for the costs incurred, after quantification and communication, for the control and further testing and calibration of the same.

The replaced parts remain the property of Over S.p.A.

DECLARATION OF CONFORMITY

Over S.p.A. declares that its family of instruments complies with the directives EMC 89/336/ECC 73/23CE 93/68 CE and meets the requirements of the following product standards IEC 61326, IEC 61010.

The device was tested in the typical installation configuration and with peripherals complying with the directive EMC and the low voltage directive

Device designed, produced and distributed by Over S.p.A.

This manual was last updated on 04/27/2021.

The latest updated version of the manual is available in digital format downloadable from the website www.overttechnologies.com

Check that the version of this manual, written on the front cover, corresponds to the updated version of the manual.