USER'S MANUAL



AZZURRO ZCS

AZZURRO HUB

ZSM-HUB

ZUCCHETTI Centro Sistemi

GREEN INNOVATION

Azzurro HUB – monitoring and control system

User Manual



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Warnings

This manual contains important safety instructions which must be followed and observed during the installation and maintenance of the equipment.

Keep these instructions!

This manual must be regarded as an integral part of the equipment and must be available at all times to anyone who uses the equipment. The manual must always accompany the equipment, even when it is sold to another user or moved to another site.

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Technical support

ZCS offers a technical support and consultancy service which can be accessed by submitting a request directly via the website www.zcsazzurro.com
For Italy, the freephone number below is available: 800 72 74 64.

Foreword

General Information

Please read this manual carefully before installation, use or maintenance**.** This manual contains important safety instructions which must be followed during the installation and maintenance of the equipment.

Scope

This manual describes the assembly, installation, electrical connections, commissioning, maintenance and troubleshooting of the "Azzurro HUB" system. Keep this manual in a safe place so that it is accessible at all times.

Intended Audience

This manual is intended for qualified technical personnel (installers, technicians, electricians, technical support staff or anyone qualified and certified to work on electrical installations) responsible for installation and commissioning. The manual is also intended for end users, who may find useful information on managing their system via the "Azzurro-HUB" system.

Symbols used

This manual provides information on how to carry out work safely and uses certain symbols to ensure the safety of personnel and equipment, and to facilitate efficient operation during normal use. It is important to understand this information to prevent accidents and damage to property. Please familiarise yourself with the symbols listed below and used in this manual.

 **Danger**	**Danger:** indicates a hazardous situation which, if not resolved or avoided, may result in serious personal injury, wounds or death
 **Warning**	**Warning:** indicates a hazardous situation which, if not resolved or avoided, may result in serious personal injury, harm or death
 **Caution**	**Caution:** indicates a hazardous situation which, if not resolved or avoided, may result in minor or moderate personal injury

 **Caution**	**Caution:** indicates a potentially hazardous situation which, if not resolved or avoided, may result in damage to the system, property or other items
 **Note**	**Note:** important advice for the correct and optimal operation of the product

1. Preliminary safety guidelines

Note	**If you have any queries or difficulties in reading and understanding the following information, please contact Zucchetti Centro Sistemi S.p.A. via the official channels provided**

1.1. Safety Instructions

This section primarily sets out the safety instructions to be followed during the installation and use of the equipment.
Read and understand the instructions in this manual and familiarise yourself with the relevant safety symbols in this chapter; only then should you begin to install and commission the equipment. All installation work must be carried out by a qualified and competent electrician.
Contact your nearest authorised service centre should any repairs or maintenance be required. Contact your distributor for details of your nearest authorised service centre. DO NOT carry out repairs yourself; doing so may result in injury or damage.

Qualified personnel

Ensure that the operator has the necessary skills and training to carry out their duties. Personnel responsible for the use and maintenance of the equipment must be competent, aware of and familiar with the activities described, as well as possessing the appropriate knowledge to correctly interpret the contents of this manual. For safety reasons, only a qualified electrician who has received the necessary training and/or has demonstrated the requisite skills and knowledge in the installation and maintenance of the device may install this system. Zucchetti Centro Sistemi S.p.A. accepts no liability for damage to property or personal injury caused by the incorrect use of the device.
Do not attempt, under any circumstances, to repair or replace any components of the system without the assistance of qualified personnel.

Installation requirements

Install and commission the system in accordance with the following instructions. Choose a suitable location for the installation of electrical equipment. Ensure there is sufficient space to facilitate any necessary maintenance work.

Transport requirements

If you encounter any issues with the packaging that could cause damage to the system, or if there is any visible damage, please contact the responsible transport company immediately. If necessary, seek assistance from an installer or from Zucchetti Centro Sistemi S.p.A. The equipment must be

transported, particularly by road, using suitable means to protect the components (in particular the electronic components) from severe impacts, damp, vibrations, etc.

Electrical connections

All applicable electrical regulations regarding accident prevention must be observed.

 **Danger**	**Before making the electrical connection, ensure that the power supply to the AC connection cables is properly disconnected**
 **Warning**	**All installation work must be carried out exclusively by a qualified electrician!** **They must be properly trained and must read this manual carefully and understand the relevant topics**
 **Note**	**It is forbidden to remove the information label or tamper with the system** **Failure to do so will result in ZCS providing no warranty or support**

Operation

Do not use the product if it shows any defects, cracks, abrasions or leaks; instead, contact your retailer or our staff.

 **Danger**	**Contact with the mains supply or the equipment's terminal may result in electric shock or fire!** • Do not touch the terminal or the conductor connected to the mains supply. • Observe all instructions and safety documents relating to connection to the mains

⚠ **Warning**	**In the event of abnormal operation:** • Disconnect the incoming and outgoing power supplies

Maintenance and repair

Keep the system clean and dry; if cleaning is required, use a clean, dry cloth.

Product label:



Figure1– Labels on the system

2. Product features

2.1. Product overview

Azzurro HUB is a control system capable of communicating with the Azzurro series electric vehicle charging stations, the Azzurro series photovoltaic and hybrid inverters, and the Azzurro series heat pump systems; it is also capable of measuring consumption, monitoring the installation, limiting the power fed into the grid, and controlling domestic loads through the use of accessory sensors, external meters and digital outputs.

2.2. Local web server

When switched on, the Azzurro HUB provides a Wi-Fi/Bluetooth access point to which you can connect by scanning the QR code on the product.
Once connected to the access point, the web server for product configuration will open automatically; it can also be accessed via the IP address 192.168.20.1:55560

After the initial connection to the router (via Ethernet or Wi-Fi), the web server can also be accessed by entering the IP address assigned by the router into a browser, using port 55560 (e.g. 192.168.1.100:55560)

2.3. Communication with devices

Communication with vehicle charging stations can be carried out, depending on the model, via the dedicated CAN serial port for up to 8 devices (VITA series Wallbox), via the RS485 serial port for 32 devices (Caro series Wallbox), or via Modbus TCP (DC series Wallbox), for up to 32 devices.

Communication with inverters can be carried out via a dedicated RS485 serial port; up to 32 inverters can be connected to the Azzurro HUB.

Communication with meters can be established via a dedicated RS485 serial port; up to 32 meters can be connected to the Azzurro HUB.

Communication with heat pump systems can be established via a dedicated RS485 serial port; up to 32 heat pump systems can be connected to the Azzurro HUB.

2.4. Communication with the portal

To communicate with the web portal or mobile app, you must have an internet connection to which the Azzurro HUB can be connected.
The Azzurro HUB can be connected to any router via the RJ45 socket on the top of the device or via a Wi-Fi connection.

2.5. General product description

The Azzurro HUB can be mounted on a DIN rail (6 modules wide) and is powered by a 230V AC mains supply. Its connections allow for the connection of accessories, charging stations, Azzurro series inverters and the necessary power supplies.

There are two hardware versions of the Azzurro, named:

- **Ver. A**
- **Ver. B**

The versions differ in the number and type of connectors provided, but not in terms of functionality.

2.5.1. Details of Version A (Ver. A)

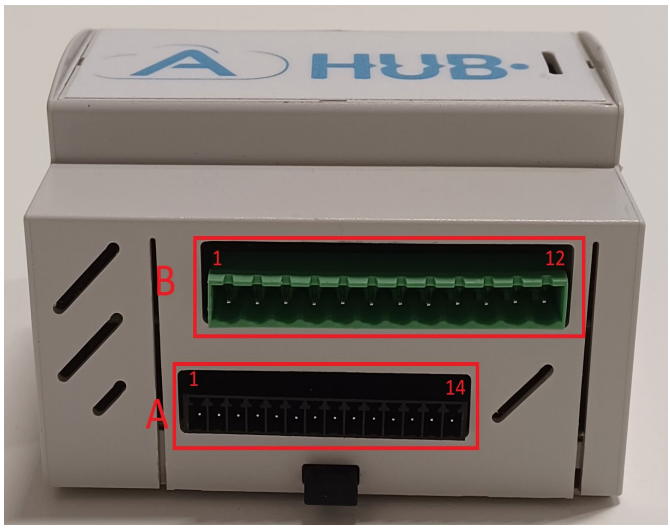


Figure2– bottom view of the device for Ver. A

The system features a 14-pin terminal block (A) at the bottom for connecting devices (inverters, meters, wallboxes, etc.) and a 12-pin terminal block (B) for outputs (relays – dry contacts).

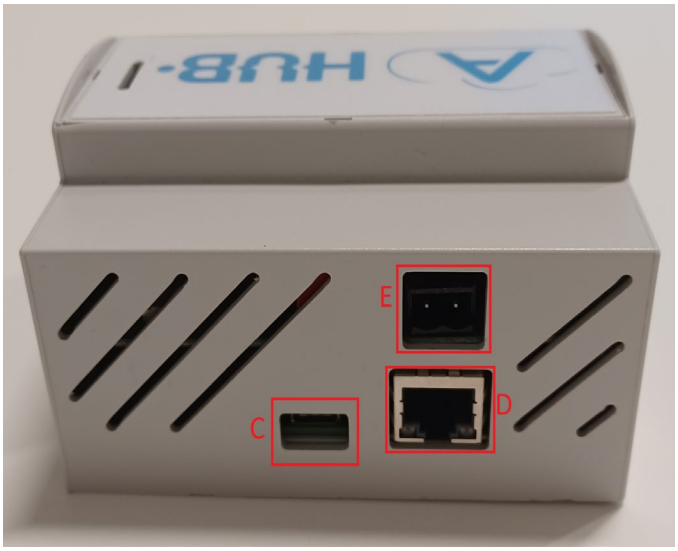


Figure3– Top view of the device for Ver. A

The following are located on the top: the 230V AC power connector [E], the USB-C connector [C] for future expansions, and the RJ45 connector [D] for the Ethernet connection.

Pinout of the **14-pin** connector **[A]**:

PIN Azzurro HUB [A]	Pin description for Azzurro HUB [A]	Description of the external device that can be connected	Connector on external device	Pins on external device
1	CAN-L	CAN wall box	RJ45 for CAN connection	5
2	CAN-H	CAN wall box	RJ45 for CAN connection	4
3	Analogue input 1+	PT100/PT1000 temperature sensor	/	/
4	Analogue input 1-	PT100/PT1000 temperature sensor	/	/
5	CT exchange +	current sensor for exchange point, transformation ratio 3000:1 (max 80A on primary side)	/	/
6	Exchange CT –	current sensor for exchange point, transformation ratio 3000:1 (max 80A on primary side)	/	/
7	Generation CT +	current sensor for external generation, transformation ratio 3000:1 (max 80A on primary)	/	/
8	Production CT –	current sensor for external	/	/

		generation, transformation ratio 3000:1 (max 80A on primary)		
9	RS485 3A	External meter	RS485	24
10	RS485 3B	External meter	RS485	25
11	RS485 2A	CARO series wallbox	RS485	RS485 A
		Heat pumps	RS485	RS485 A
		Heat pump water heater	RS485	RS485 A
12	RS485 2B	CARO series wallbox	RS485	RS485 B
		Heat pumps	RS485	RS485 B
		Heat pump water heater	RS485	RS485 B
13	RS485 1A	Azzurro V3 or HYD 3PH series inverter	COM	1-2
		Azzurro HYD 1PH inverter, HP series	COM	5
		Azzurro HYD 1PH ZP1 series inverter	COM	2
14	RS485 1B	Azzurro V3 or HYD 3PH series inverter	COM	3-4
		Azzurro HYD 1PH inverter, HP series	COM	6
		Azzurro HYD 1PH ZP1 series inverter	COM	3

Pinout of the **12-pin** connector **[B]**:

PIN Azzurro HUB [B]	Azzurro HUB [B] pin description	1. Rating
1	Relay output 1 NC	3A / 230V AC 3A / 48V DC
2	Relay output 1 COM	
3	Relay output 1 NO	
4	Relay output 2 (NC)	
5	Relay output 2 COM	
6	Relay output 2 NO	
7	Relay output 3 NC	
8	Relay output 3 COM	
9	Relay output 3 NO	
10	Relay output 4 NC	
11	Relay output 4 COM	
12	Relay output 4 NO	

Cables with a maximum recommended cross-section of $1.5\ mm^2$ can be connected to this connector.

2.5.2. Details on Version B (Ver. B)

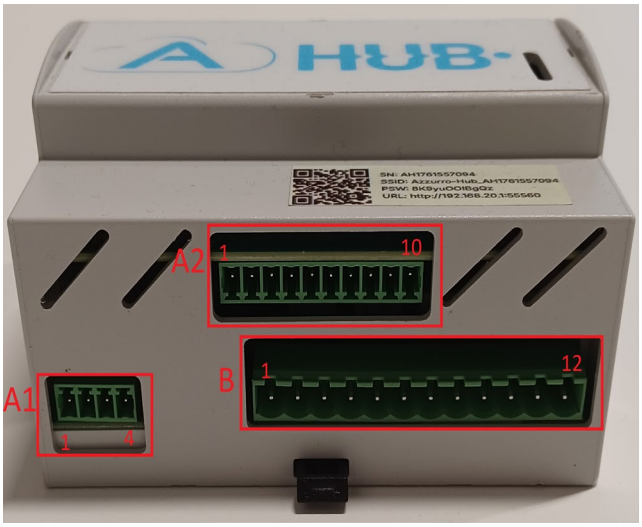


Figure4– bottom view of the device for Ver. B

On the underside, the system features two terminal blocks: one with 4 pins (A1) and the other with 10 pins (A2) for connecting devices (inverters, meters, wallboxes, etc.), and a 12-pin terminal block (B) for the outputs (relay – dry contact).

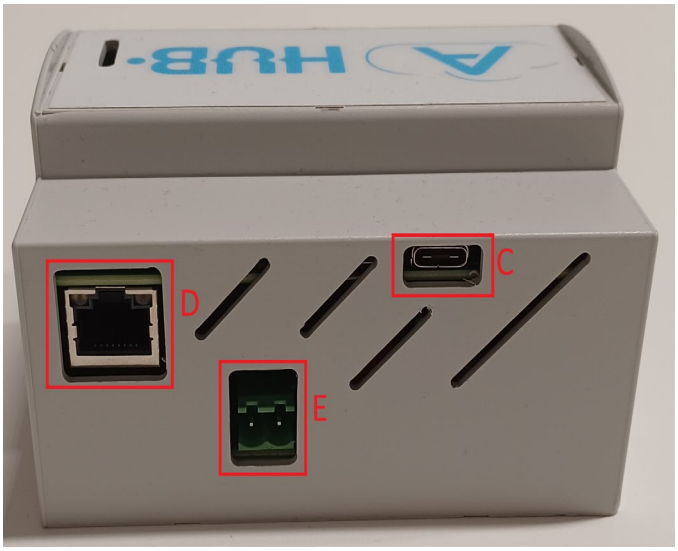


Figure5– Top view of the device for Ver. B

The following are located on the top: the RJ45 connector [D] for the Ethernet connection, the USB-C connector [C] for future expansions, and the 230V AC power connector [E].

Pinout of the **4-pin** connector **[A1]**:

PIN Azzurro HUB [A1]	Pin description for Azzurro HUB [A1]	Description of the external device that can be connected	Connector on external device	Pins on external device
1	CT tap +	current sensor for switching point, transformation ratio 3000:1 (max 80A on primary side)	/	/
2	Exchange CT –	current sensor for switching point, transformation ratio 3000:1 (max 80A on primary side)	/	/
3	Production CT +	current sensor for switching point, transformation ratio 3000:1 (max 80A on primary side)	/	/
4	Generation CT -	current sensor for switching point, transformation ratio 3000:1 (max 80A on primary side)	/	/

10-pin connector pinout **[A2]**:

PIN Azzurro HUB [A2]	Azzurro HUB [A2] pin description	Description of the external device that can be connected	Connector on external device	Pins on external device
1	Analogue input 1+	PT100/PT1000 temperature probe	/	/
2	Analogue input 1-	PT100/PT1000 temperature probe	/	/
3	RS485 1A	Azzurro V3 or HYD 3PH series inverter	COM	1-2
		Azzurro HYD 1PH inverter, HP series	COM	5
		Azzurro HYD 1PH ZP1 series inverter	COM	2
4	RS485 1B	Azzurro V3 or HYD 3PH series inverter	COM	3-4
		Azzurro HYD 1PH inverter, HP series	COM	6
		Azzurro HYD 1PH ZP1 series inverter	COM	3
5	RS485 3A	External meter	RS485	24
6	RS485 3B	External meter	RS485	25
7	RS485 2A	CARO series wallbox	RS485	RS485 A
		Heat pumps	RS485	RS485 A
		Heat pump water heater	RS485	RS485 A
8	RS485 2B	CARO series wallbox	RS485	RS485 B
		Heat pumps	RS485	RS485 B

		Heat pump water heater	RS485	RS485 B
9	CAN-H	CAN wall box	RJ45 for CAN connection	5
10	CAN-L	CAN wall box	RJ45 for CAN connection	4

Pinout of the **12-pin** connector **[B]**:

PIN Azzurro HUB [B]	Azzurro HUB [B] pin description	1. Rating
1	Relay output 1 NC	3A / 230V AC 3A / 48V DC
2	Relay output 1 COM	
3	Relay output 1 NO	
4	Relay 2 NC output	
5	Relay output 2 COM	
6	Relay output 2 NO	
7	Relay output 3 NC	
8	Relay output 3 COM	
9	Relay output 3 NO	
10	Relay output 4 NC	
11	Relay output 4 COM	
12	Relay output 4 NO	

Cables with a maximum recommended cross-section of $1.5\ mm^2$ can be connected to this connector.

2.6. Power supply connector [E]

A 230V 50Hz power supply can be connected to this connector; the maximum recommended cable cross-section is $1.5\ mm^2$.

2.7. Ethernet connector [D]

The Ethernet connector, fitted with two LEDs, enables a wired network connection.
All Azzurro HUB devices are already equipped for connection via both on-board Wi-Fi and a cable.

3. Installation Diagrams

This chapter describes the system's electrical connections.
Please read this section carefully before connecting the cables.
During the installation, repair and maintenance of the product, local, regional and national regulations must be observed.

Warning	**Before making any electrical connections, ensure that there is no AC power present. Zucchetti Centro Sistemi Spa accepts no liability for any consequences arising from the improper use of this product. Installation must be carried out by a qualified professional with the skills and knowledge required for the construction, installation and operation of electrical components, and who has received safety training to recognise and avoid potential hazards.**
Warning	**Installation and maintenance must be carried out by professional technicians or electricians.**

Note	**For safety reasons, ensure that correctly sized cables are used; otherwise, the current may cause excessive heating or overloading, which could lead to fires.**

Procedure for connecting the power cables

1) Before carrying out any work, ensure you are working in safe conditions by checking that the cables are de-energised.
2) Strip the protective sheath to the appropriate length as shown in the figure (A: 80–100 mm; B: 6–8 mm);

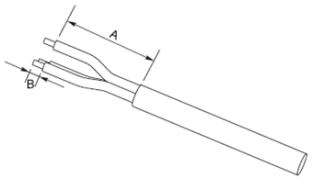


Figure6– Connecting the AC power cables

3) Connect the cable to the dedicated input (connector E – see chapter2.6).

3.1. System diagram with ZCS inverter for storage

INVERTER TYPE	COMPATIBLE INVERTER MODEL
1PH	BZT5000 - Retrofit
1PH	HYD 3000-ZSS HP/HYD 6000-ZSS HP
1PH	HYD 3000/HYD 6000 ZP1 – One and All
3PH	HYD 5000/HYD 12000 ZP3 – One and All
3PH	HYD 5000 ZSS/HYD 20000 ZSS
3PH	HYD 30000 ZSR/ HYD 60000 ZSR

The diagram below is recommended when the system includes one or more storage inverters (1-phase or 3-phase) from the Azzurro ZCS range, as listed in the table above.

This type of connection allows for:

a – monitoring and control of ZCS photovoltaic inverters via an RS485 connection to the Azzurro HUB (data transmission to the portal and controlled feed-in functions)
b – reading of photovoltaic output from ZCS inverters or non-ZCS brands via a meter known as the "EXT Production Meter", connected to the ZCS Master hybrid unit in the chain
c – reading of power exchanged with the grid via a meter called the "POD meter", connected to the hybrid master in the chain
d – reading of the system's total power data and monitoring of individual ZCS hybrid units via an RS485 connection to the Azzurro HUB
e – control and reading of charging wallboxes via an RS485 or CAN connection (depending on the wallbox model used) with the Azzurro HUB

Required connections and configurations:

- RS485 connections between the Azzurro HUB and the photovoltaic inverters and ZCS hybrid units, using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and CARO series wallboxes using port RS4852 (pins RS4852A and RS4852B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- CAN connections between the Azzurro HUB and the VITA series wallbox using the CAN port (pins CAN-H and CAN-L) as shown in the connector tables in the sections2.5.1 and 2.5.2
- Set the "monitoring mode" on the Azzurro HUB configuration web server to "Inverter Master – Use the inverter for PCC monitoring", so that the power exchange readings are taken from the meter connected to the master hybrid (see5.2.4)

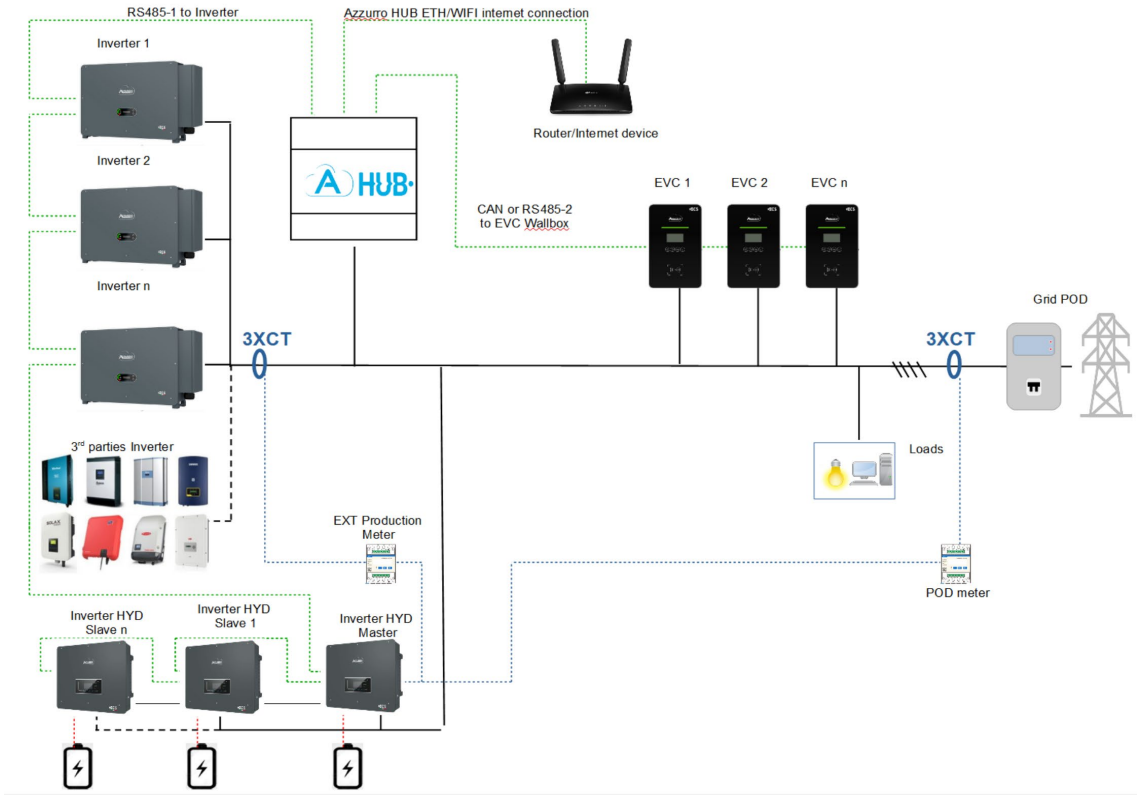


Figure7– System diagram with one or more ZCS hybrid inverters

3.2. System diagram with a pure ZCS 3-phase photovoltaic inverter

INVERTER TYPE	COMPATIBLE INVERTER MODEL
3-phase	3.3KTL-V3/3PH 12KTL-V3
3-phase	15000TL-V3/3PH 24000TL-V3
3-phase	25KTL-V3/3PH 50KTL-V3
3-phase	60KTL-V3/3PH 80KTL-V3
3-phase	80KTL-LV/110KTL-LV
3-phase	100KTL-V4/110KTL-V4
3-phase	100KTL-HV/136KTL-HV
3-phase	250KTL-HV/255KTL-HV
3-phase	250KTL-HV Z0 / 330KTL-HV Z0 / 350KTL-HV Z0

Use this diagram when the system includes photovoltaic inverters (3-phase) from the ZCS Azzurro range, as shown in the table above, but no hybrid inverters.

This type of connection allows for:

a – monitoring and control of ZCS photovoltaic inverters via an RS485 connection to the Azzurro HUB (data transmission to the portal and controlled feed-in functions)
b – reading of photovoltaic output from non-ZCS brand inverters via a meter called the “EXT Production Meter” connected to the Azzurro HUB (the HUB supports up to 4 external production meters)
c – reading of power exchanged with the grid via a meter called the “POD meter” connected to the Azzurro HUB
d – control and reading of charging wallboxes via an RS485 or CAN connection (depending on the wallbox model used) with the Azzurro HUB

Required connections and configurations:

- RS485 connections between the Azzurro HUB and ZCS photovoltaic inverters using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in the sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and CARO series wallboxes using port RS4852 (pins RS4852A and RS4852B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- CAN connections between the Azzurro HUB and the VITA series wallbox using the CAN port (pins CAN-H and CAN-L) as shown in the connector tables in the sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and the meter, using the RS4853 port (pins RS4853A and RS4853B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- Set the “monitoring mode” on the Azzurro HUB configuration web server to “Meter Master – Use the meter (Modbus address 1) for PCC monitoring”, so that the exchange readings are taken from the meter connected to the master hybrid (refer to5.2.4)

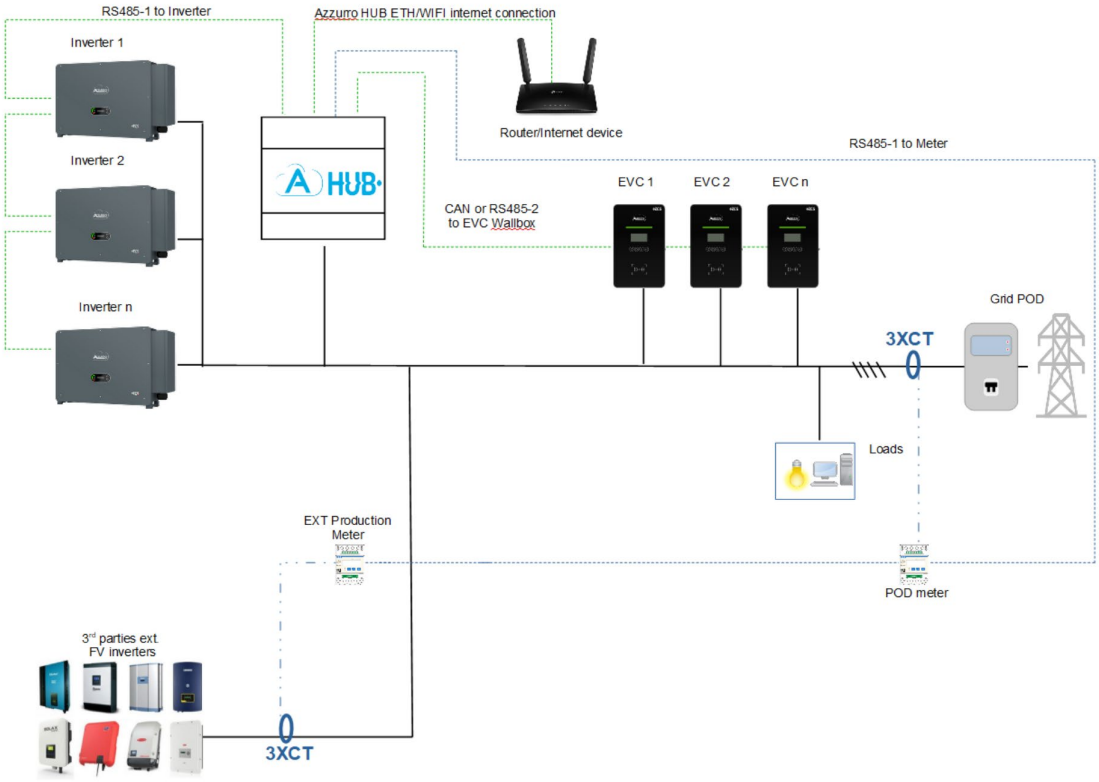


Figure8– System diagram with one or more ZCS pure photovoltaic inverters

3.3. System diagram with ZCS HUB as EMS

The diagram below is recommended when there are storage systems or ZCS hybrid systems from different families that cannot be connected to a master due to long distances, or whenever it is necessary to use the HUB as an EMS (Energy Management System) controller

This type of connection allows for:

a – monitoring and control of ZCS photovoltaic and hybrid inverters via an RS485 connection with the Azzurro HUB (data transmission to the portal and controlled feed-in functions)
b – reading of photovoltaic generation from non-ZCS brand inverters via a meter known as the “EXT Production Meter” and connected to the Azzurro HUB (the HUB supports up to 4 external generation meters)
c – reading of power exchanged with the grid via a meter called the “POD meter” connected to the Azzurro HUB
d – monitoring and reading of charging wallboxes via an RS485 or CAN connection (depending on the wallbox model used) with the Azzurro HUB

e – monitoring and control of Power Magic models via a connection to the LAN network of the Azzurro HUB and the Power Magic units (configuration with a static IP address for Power Magic)

Required connections and configurations:

- RS485 connections between the Azzurro HUB and ZCS photovoltaic and hybrid inverters using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and CARO series wallboxes using port RS4852 (pins RS4852A and RS4852B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- CAN connections between the Azzurro HUB and the VITA series wallbox using the CAN port (pins CAN-H and CAN-L) as shown in the connector tables in the sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and the meter, using the RS4853 port (pins RS4853A and RS4853B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- Set the 'monitoring mode' on the Azzurro HUB configuration web server to 'Meter Master – Use the meter (Modbus address 1) for PCC monitoring', so that the exchange readings are taken from the meter connected to the hybrid master (see5.2.4)
- Set the EMS mode (see5.2.10)
- Disable "parallel settings" on the hybrid inverters and do not configure them in master/slave mode

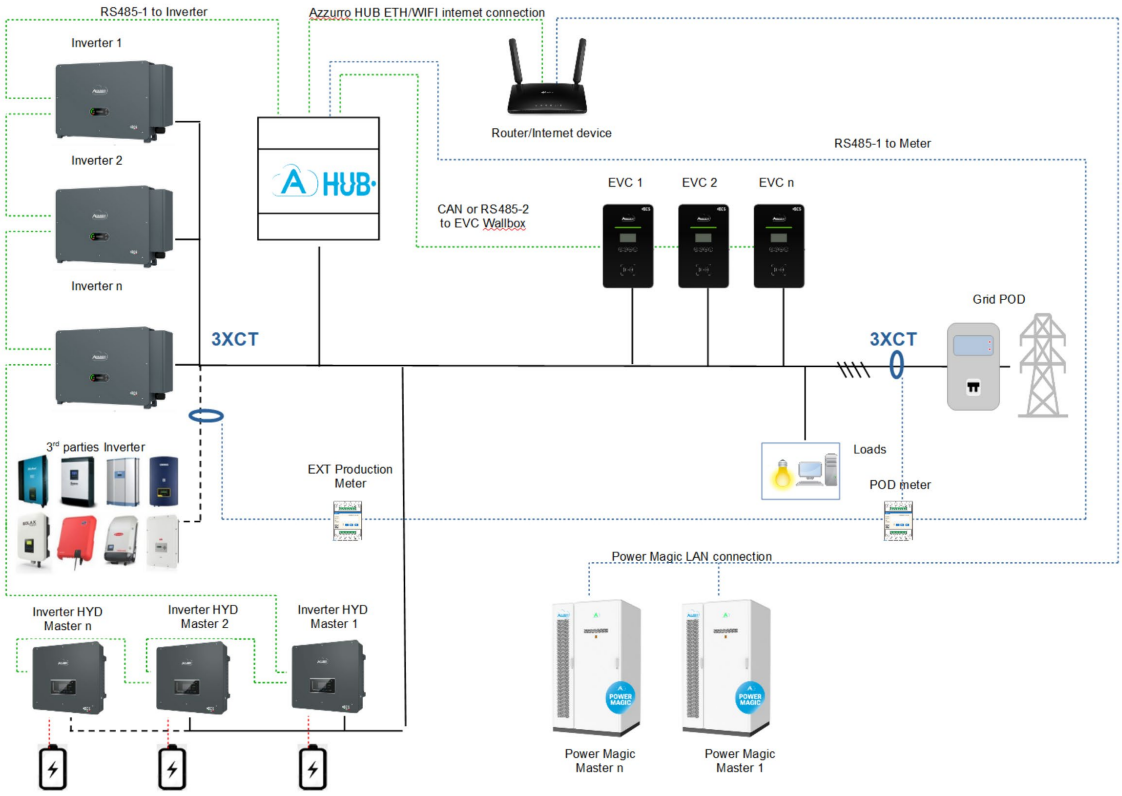


Figure9– System diagram with Azzurro HUB as EMS

3.4. System diagram with ZCS Power Magic only

The diagram below is recommended when Power Magic series BESS systems are present alongside other ZCS or third-party pure photovoltaic inverters

This type of connection allows for:

a – monitoring and control of ZCS photovoltaic inverters via an RS485 connection with the Azzurro HUB (data transmission to the portal and controlled feed-in functions)
b – reading of photovoltaic output from non-ZCS brand inverters via a meter called the "EXT Production Meter" and connected to the Power Magic BESS
c – reading of power exchanged with the grid via a meter called the "POD meter", connected to the Power Magic BESS
d – control and reading of charging wallboxes via an RS485 or CAN connection (depending on the wallbox model used) with the Azzurro HUB
e – monitoring and control of Power Magic models via connection to the LAN network of the Azzurro HUB and the Power Magic units (configuration with a static IP address for Power Magic)

Required connections and configurations:

- RS485 connections between the Azzurro HUB and ZCS photovoltaic inverters using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and CARO series wallboxes using port RS4852 (pins RS4852A and RS4852B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- CAN connections between the Azzurro HUB and the VITA series wallbox using the CAN port (pins CAN-H and CAN-L) as shown in the connector tables in the sections2.5.1 and 2.5.2
- Set the "monitoring mode" on the Azzurro HUB configuration web server to "Power Magic Master – Use Power Magic for PCC monitoring", so that the exchange readings are taken from the meter connected to the Power Magic (see5.2.4)

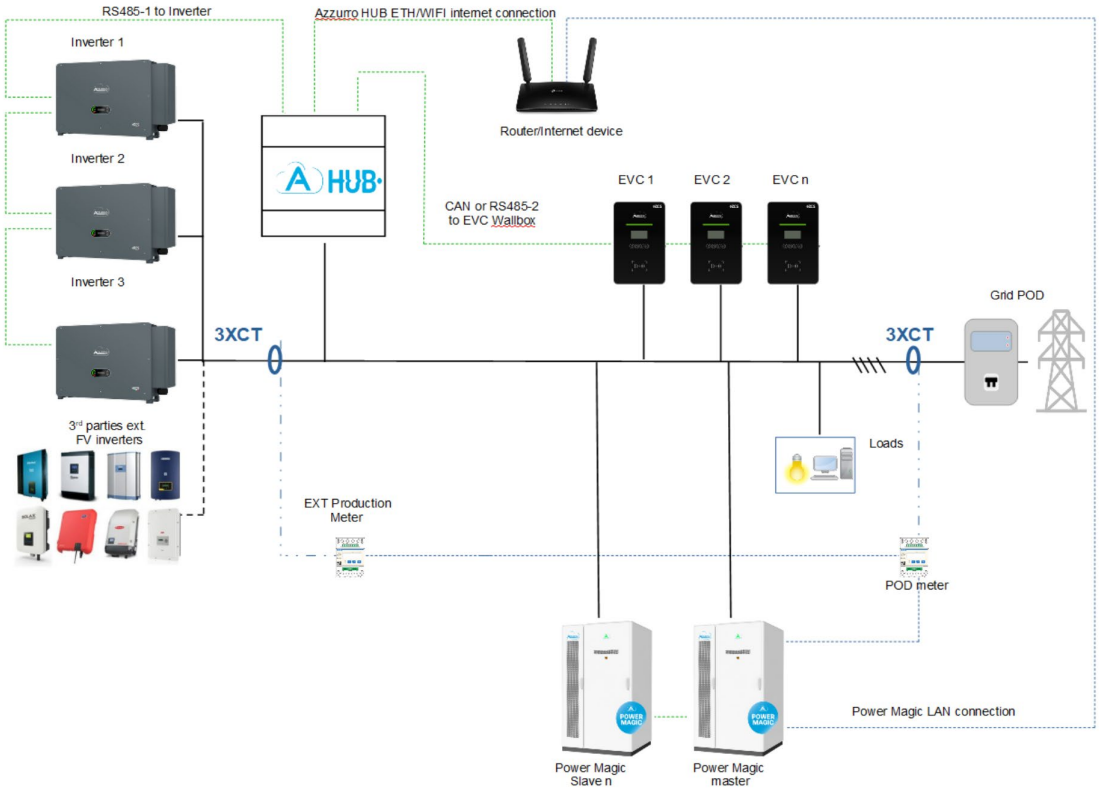


Figure10– System diagram with Power Magic

3.5. System diagram with sensors (TA) connected directly to the Azzurro HUB

This solution can only be used on single-phase (1PH) systems, using the current transformers (CTs) with a 3000:1 transformation ratio supplied by ZCS (e.g. ZST-ACC-TA).

This type of connection allows for:

a – monitoring and control of ZCS photovoltaic inverters via an RS485 connection to the Azzurro HUB (data transmission to the portal and controlled feed-in functions)
b – reading of photovoltaic output from non-ZCS brand inverters via a CT sensor connected to the Azzurro HUB
c – reading of power exchanged with the grid via a CT sensor connected to the Azzurro HUB
d – control and monitoring of charging wallboxes via an RS485 or CAN connection (depending on the wallbox model used) with the Azzurro HUB

Required connections and configurations:

- RS485 connections between the Azzurro HUB and ZCS photovoltaic inverters using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in the sections2.5.1 and 2.5.2
- RS485 connections between the Azzurro HUB and CARO series wallboxes using port RS4852 (pins RS4852A and RS4852B) as shown in the connector tables in the sections2.5.1 and 2.5.2
- CAN connections between the Azzurro HUB and the VITA series wallbox using the CAN port (pins CAN-H and CAN-L) as shown in the connector tables in the sections2.5.1 and 2.5.2
- Connections for CT sensors using the dedicated ports labelled 'CT exchange' and 'CT production' as shown in the connector tables in the sections2.5.1 and 2.5.2
- Set the 'monitoring mode' on the Azzurro HUB configuration web server to 'Internal sensor – Use the internal sensor for PCC monitoring (1-phase only)', so that the exchange readings are taken from the CT sensor connected to the Azzurro HUB (see5.2.4)

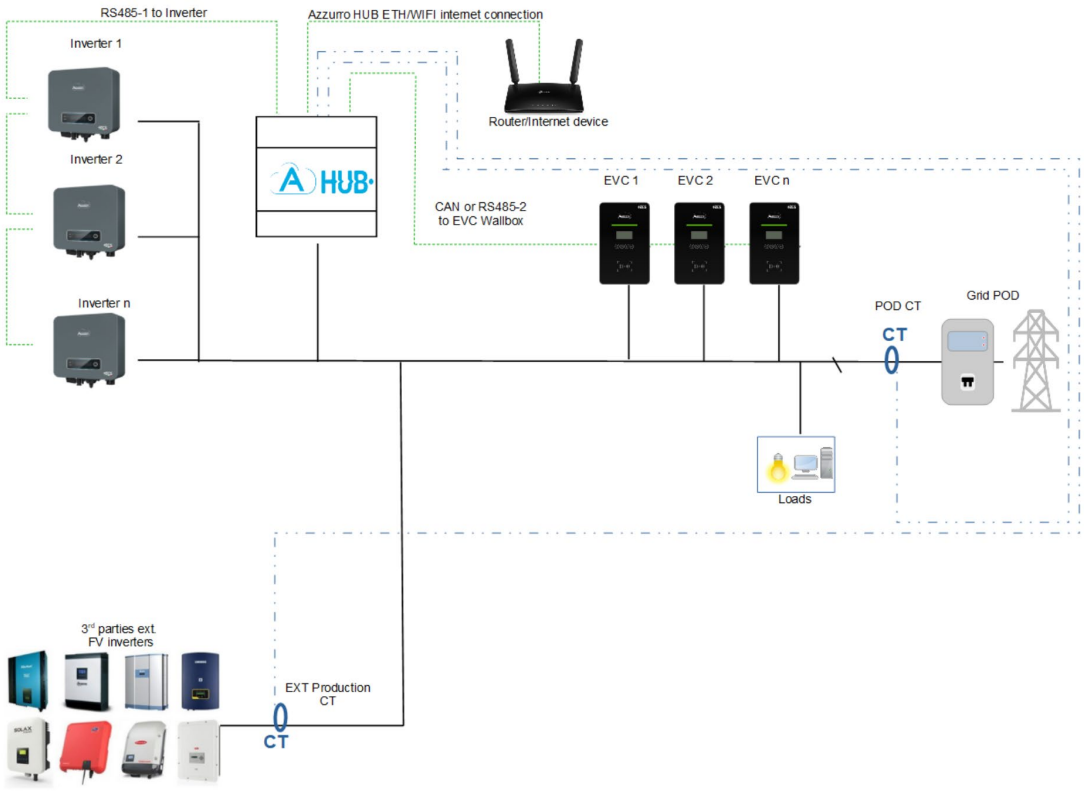


Figure11– System diagram with sensors connected directly to the Azzurro HUB

3.6. System diagram with PSC100 (250KTL-HV Z0 / 330KTL-HV Z0 / 350KTL-HV Z0 inverters only)

This solution must be used when the Azzurro HUB is installed in systems where the PSC100 concentrator is also present.

This type of connection allows for:

a – monitoring of ZCS photovoltaic inverters via the Azzurro HUB's LAN connection (data transmission to the portal)

Required connections and configurations:

- RS485 connections between the Azzurro HUB and the metering unit using RS4853 port (pins RS4853A and RS4853B) as indicated in the connector tables in the sections '2.5.1 ' and 2.5.2
- Set the 'monitoring mode' on the Azzurro HUB configuration web server to 'Meter Master – Use the meter (Modbus address 1) for PCC monitoring', so that the exchange readings are taken from the meter connected to the hybrid master (see5.2.4)
- Set up communication with the PSC100 (see5.2.9)

Note	**The Azzurro HUB, when connected via PSC100, only performs read functions and does not send control commands**

Note	**Any CCI may send control commands via the PSC100**

Note	**Communication between the PSC100 and the inverter takes place via PBUS (power line communication). For installation of the PSC100, refer to the relevant Manual and the document "Commissioning_PSC100_RevX.X"**

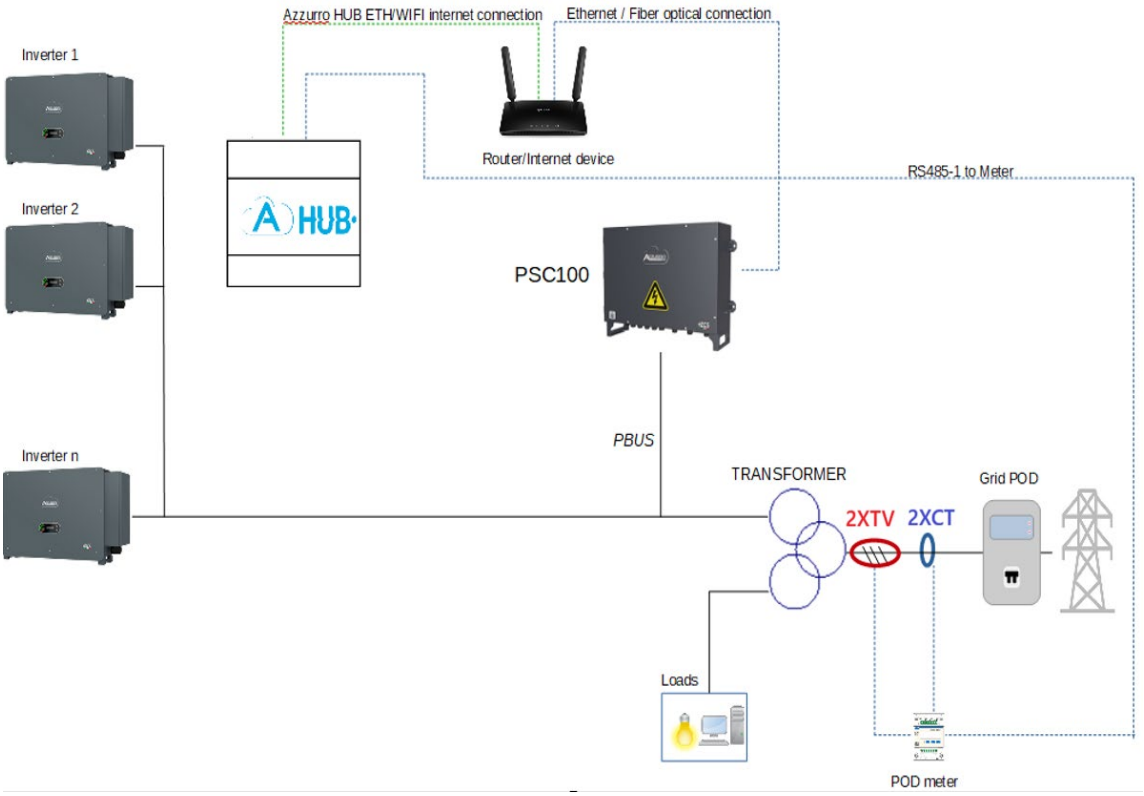


Figure12– Installation diagram with PSC100

3.7. System diagram with CCI

This solution must be used when the Azzurro HUB is installed in systems where a CCI from any manufacturer is also present

This type of connection enables:

a – monitoring and control of ZCS photovoltaic and hybrid inverters via the Azzurro HUB's LAN connection

Required connections and configurations:

- RS485 connections between the Azzurro HUB and ZCS photovoltaic and hybrid inverters using the RS4851 port (pins RS4851A and RS4851B) as indicated in the connector tables in the sections2.5.1 and 2.5.2
- Configuring communication with CCI (see5.2.10)

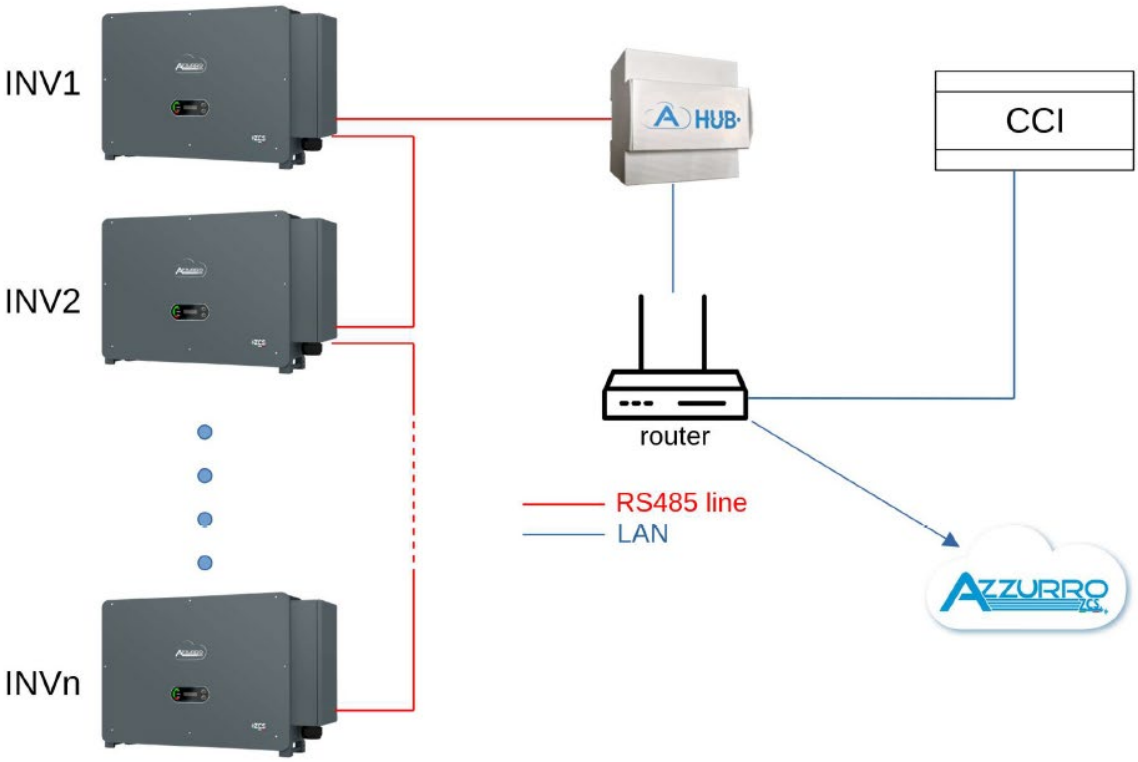


Figure13– Connection diagram with CCI

4. Connection to external devices

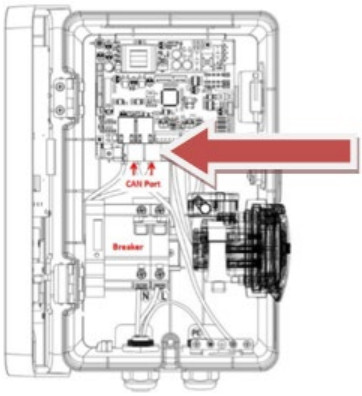
4.1. Connection to VITA series charging stations

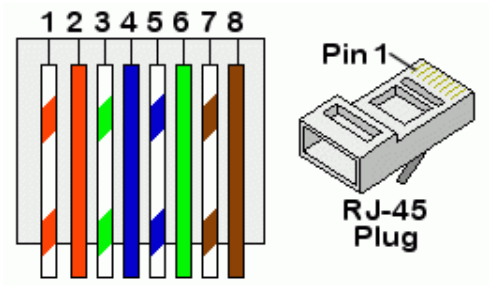
Up to 8 Azzurro EV charging stations can be connected in series.

The Azzurro HUB must be connected to the first charging station by following the instructions provided here.

1) Connect the 8-pin cable to the ports labelled 'CAN port' in the relevant diagram using an RJ45 connector.

2) For clarity, the pin-out of the RJ45 connector is shown in **the figure below**.





3) Connect the prepared cables according to the diagram below.

RJ45 Pin VITA	Cable colour	Signal description	Light Blue HUB PIN [A]	Light blue PIN HUB [A1]
4	Blue	CAN-H	1	9
5	White-Blue	CAN -L	2	10

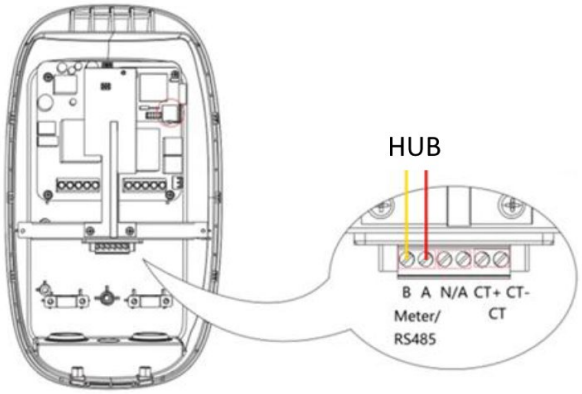
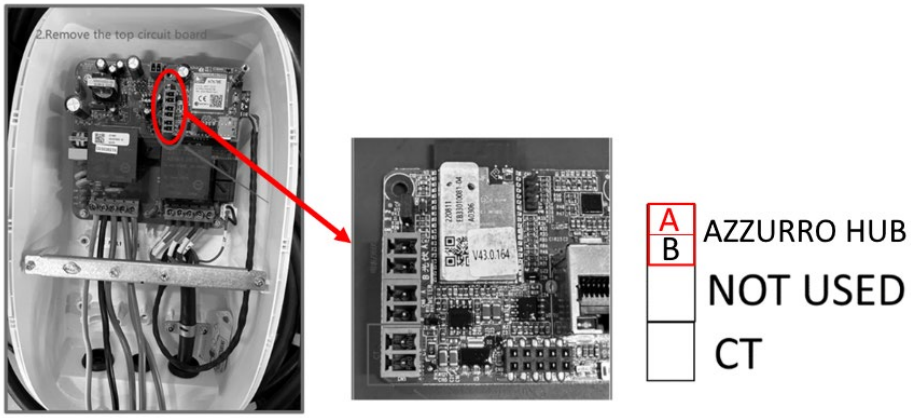
4) Connect any other wallboxes in series using the RJ45 connectors on the CAN ports as 'in-out' ports. Only the first wallbox is connected to the Azzurro HUB.

 **Note**	**For the connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shielding must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

 **Note**	**Set the Vita series wallbox to Plug & Play mode by following the instructions in the wallbox manual**

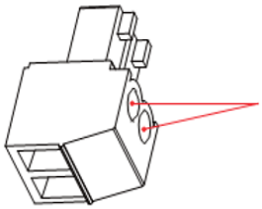
4.2. Connection to CARO series charging stations

Connect the 2-pole cable to the charging station port. Follow the polarity shown in the figure and the pinout in the table above

VERSION 'A'	
VERSION 'B'	

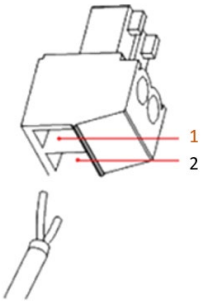
STEP 1

Loosen the two screws using a flat-bladed screwdriver (2 mm).



STEP 2

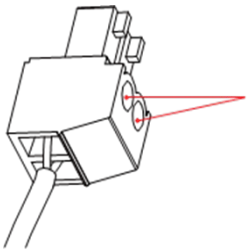
Insert the brown and black cables into the corresponding holes



1	Brown wire
2	Black wire

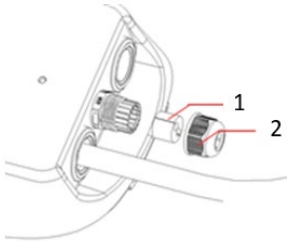
STEP 3

Tighten the two screws using a flat-bladed screwdriver (flat head size: 2 mm) to crimp the two conductors.



STEP 4

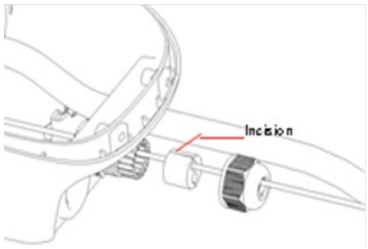
Unscrew the waterproof cap and remove the rubber cap.



1	Cable gland
2	Waterproof ring nut

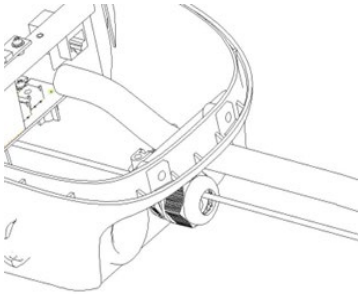
STEP 5

Feed the cable connected to the meter's connector through the cable gland.



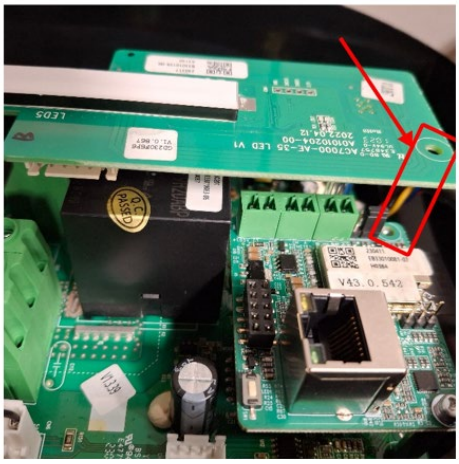
STEP 6

Tighten the ring nut

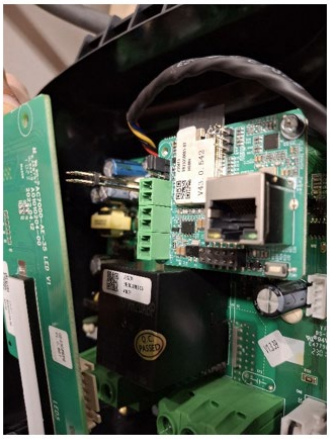


Open the front cover and remove the turret shown in the figure.



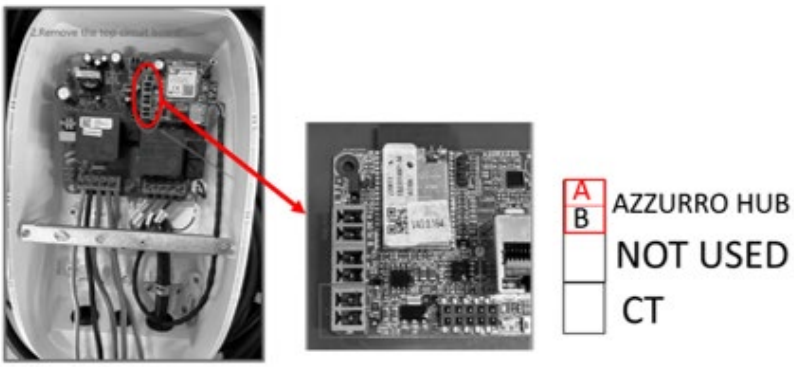


Once the turret has been unscrewed, lift the circuit board slightly so that you can insert the connector into the pins shown





Make the connection to the marked terminal



Cable colour	Connection	Light blue HUB pin [A]	Light blue HUB [A1]
RED	RS485-A	11	7
BLACK	RS485-B	12	8

Note	**For connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.2.1. Software configuration – CARO series

AP mode, also known as access point mode, is a versatile wireless networking feature that allows devices such as the Ev Charger for electric vehicles to function as Wi-Fi access points, establishing a dedicated hotspot.

Users can easily connect their smartphones or other mobile devices to this hotspot and manage the device via a web interface by navigating to a specific IP address, such as 192.168.4.1.

1. **Activate the hotspot:**

Activate the EV Charger's hotspot by restarting the power supply.

The EV Charger's hotspot remains available for 15 minutes after the charger has been restarted.



2. **Connect to the charger's hotspot:**

Switch on your smartphone's Wi-Fi and connect to the EV Charger's hotspot.

If you are unable to connect, try switching to aeroplane mode.

The Wi-Fi hotspot name begins with the EV Charger's SN number, i.e. "SN..." .

The password is **admin123**

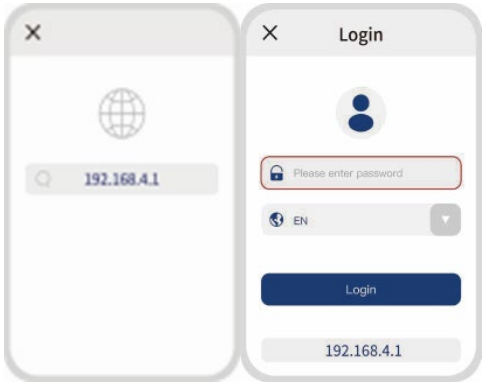


3. **Login**

Open your smartphone's browser and enter 192.168.4.1 in the address bar.

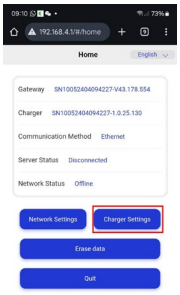
Log in using the four-digit PIN found on the last page of the printed CARO EV Charger manual or inside the box.

Once logged in, the functions menu will appear.

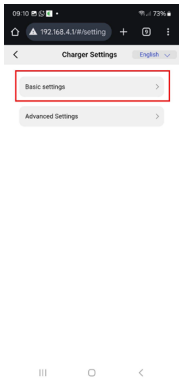


4. Configuration

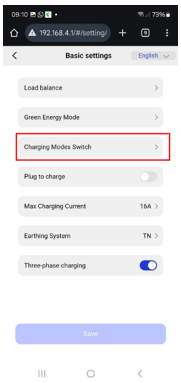
Go to 'Charger Settings'



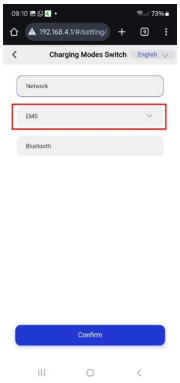
Go to 'Basic Settings'



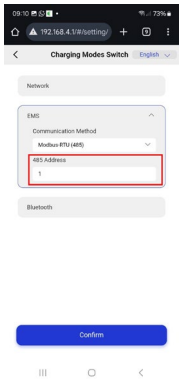
Go to ‘Charging Modes Switch’



Click on ‘EMS’



Set the desired Modbus address



NOTE: If multiple EV chargers are installed, set unique Modbus addresses.

Once you have finished, click on 'Confirm'

4.3. Connection to ZCS V3-HYD 3PH series inverter

INVERTER TYPE	COMPATIBLE INVERTER MODEL
1PH	1PH 3000TLM-V3/1PH 6000TLM-V3
3PH	3.3KTL-V3/3PH 12KTL-V3
3PH	15000TL-V3/3PH 24000TL-V3
3PH	HYD5000 HYD12000 ZP3 – One and All
3PH	HYD 5000 ZSS/HYD 20000 ZSS
3PH	25KTL-V3/3PH 50KTL-V3
3PH	60KTL-V3/3-phase 80KTL-V3
3PH	80KTL-LV/110KTL-LV
3PH	100KTL-V4/110KTL-V4
3PH	100KTL-HV/136KTL-HV
3PH	250KTL-HV/255KTL-HV
3PH	250KTL-HV Z0 / 330KTL-HV Z0 / 350KTL-HV Z0

NOTE: Sensors or meters for measuring heat exchange must be connected to the inverter in accordance with the manual

To connect the RS485 port to an inverter from the HYD 5000 ZSS/HYD 20000 ZSS series, connect the 2-pole cable to the port on the hybrid inverter marked 'COM'.
Follow the polarity shown in the figure and the pinout in the table.

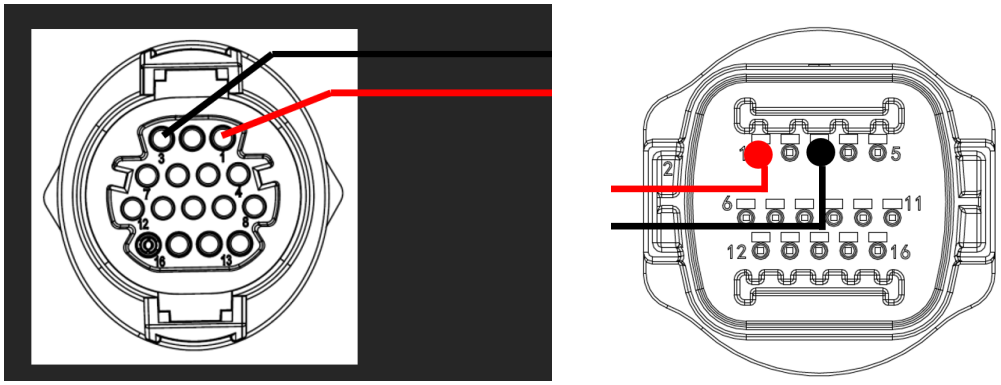


Figure14– Connection to the COM port (screw and snap-in)

1	Red cable
3	Black cable

Note	**For the connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.4. Connection to ZCS ZP1 series inverters (One and All)

INVERTER TYPE	COMPATIBLE INVERTER MODEL
1PH	HYD3000 HYD6000 ZP1 – One and All

Note: Sensors or meters for measuring power exchange must be connected to the inverter in accordance with the manual

To connect the RS485 port to an inverter from the HYD3000, HYD6000, ZP1 – One and All series, connect the 2-pin cable to the port on the hybrid inverter marked 'COM'.
Follow the polarity shown in the figure and the pinout in the table.

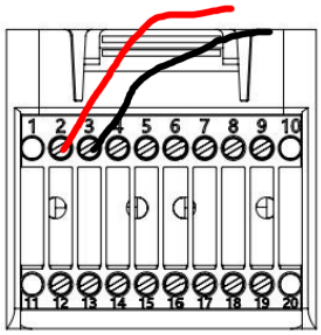


Figure15– Connections on the COM port

2	Red cable
3	Black cable

Note	**Only use certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.5. Connection to ZCS HP series inverters

INVERTER TYPE	COMPATIBLE INVERTER MODEL
1PH	HYD3000 HYD6000 HP

Note: Sensors or meters for measuring power exchange must be connected to the inverter as per the manual

To connect the RS485 port to an inverter from the HYD3000-6000 HP series, connect the 2-pin cable to the port on the hybrid inverter marked 'COM'.
Follow the polarity shown in the figure and the pinout in the table.

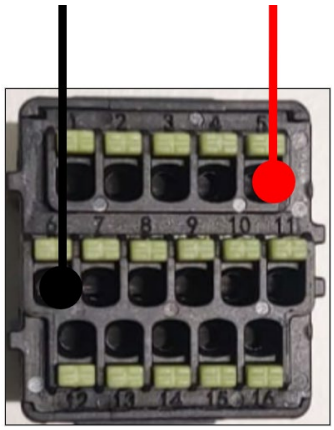


Figure16– Connections on the COM port

5	Red cable
6	Black cable

Note	**Only use certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.6. Connection to ZCS BZT5000 series inverters

INVERTER TYPE	COMPATIBLE INVERTER MODEL
1PH	BZT5000

Note: Sensors or meters for measuring heat exchange must be connected to the inverter in accordance with the manual

To connect the RS485 port to a BZT500 series inverter, connect the cable to the port on the hybrid inverter labelled RS485, using the white-orange and orange cables (respectively) for PIN 1 and PIN 2 of the RJ45 connector.
Follow the polarity shown in the figure and the pinout in the table.

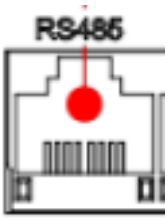
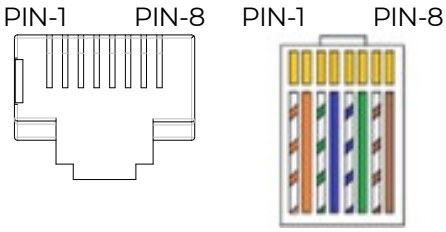


Figure17– Connections on the COM port



1	White-orange cable	RS485+
2	Orange cable	RS485-

Note	**For the connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.7. Connection to ZCS ZP3 series inverters (One and All)

INVERTER TYPE	COMPATIBLE INVERTER MODEL
3PH	HYD5000 HYD12000 ZP3 – One and All

Note: Sensors or meters for measuring power exchange must be connected to the inverter in accordance with the manual

To connect the RS485 port to an inverter from the HYD5000-12000 ZP3 – One and All series, connect the cable to the port on the hybrid inverter labelled 'Link0', using the white-orange and orange cables (respectively) for PIN 1 and PIN 2 of the RJ45 connector.
Follow the polarity shown in the figure and the pinout in the table.

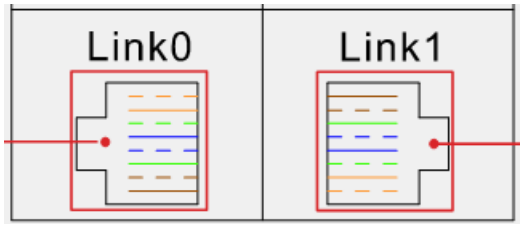
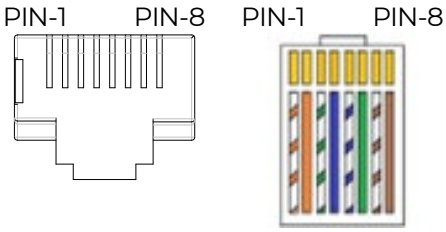


Figure18– Connections on the COM port



1	White-orange cable	RS485+
2	Orange cable	RS485-

Note	**For the connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.8. Connection to ZCS 3PH and 1PH meters (ZSM-METER-DDSU/ ZSM-METER-DTSU)

METER TYPE	COMPATIBLE METER MODEL
1PH	ZSM-METER-DDSU
3PH	ZSM-METER-DTSU

To connect via RS485 to the DDSU/DTSU meters, connect the 2-pin cable to the appropriate pins on the connector
Follow the polarity shown in the figure and the pinout in the table.

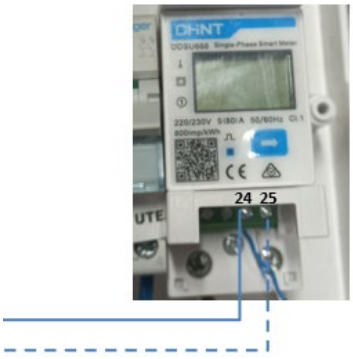


Figure19– ZSM-Meter DDSU Meter PIN Connections

PIN ZSM-METER-DDSU	Cable colour	PIN LIGHT BLUE HUB [A]	PIN LIGHT BLUE HUB [A2]
24	Blue cable	9	5
25	White-blue cable	10	6

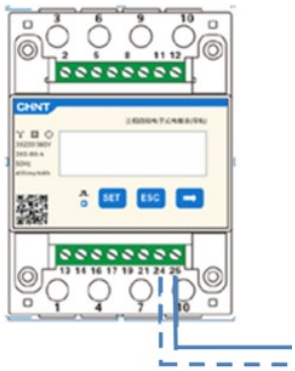


Figure20– ZSM-METER-DTSU Meter PIN Connections

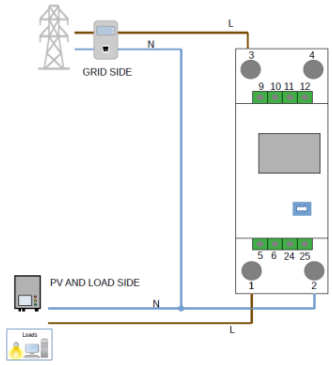
PIN ZSM-METER-DTSU		PIN LIGHT BLUE HUB [A]	PIN AZZURRO HUB [A2]
24	Blue cable	9	5
25	White-blue cable	10	6

Note	**For connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.8.1. ZSM-METER-DDSU meter settings

Connect the meter in 'direct insertion' mode as follows:

- ✓ Connect pin 2 of the meter to the neutral (N) wire;
- ✓ Connect PIN 3 to the phase leading to the exchange meter;
- ✓ Connect pin 1 to the phase of the photovoltaic system and loads.



Meter Configuration

Press the ' ' button to check that the meter's address is set to 001 (address 01 for exchange meters, 002/003/004 for external generation meters) and that the protocol is set to 8n1.

4.8.2. ZSM-METER-DTSU Meter Settings

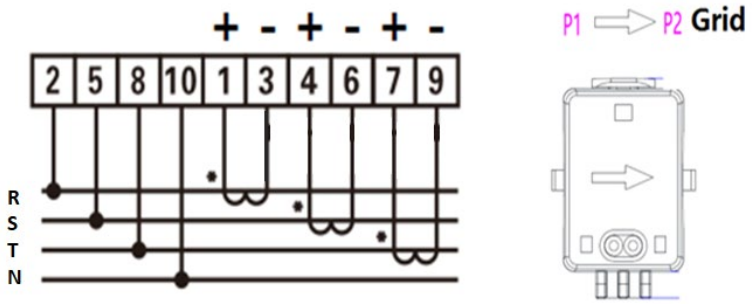
The power cables for phases R, S, T and the neutral (N) cable are connected to the meter via pins 2, 5, 8 and 10 respectively. The current transformers (CTs) for current measurement are connected as follows:

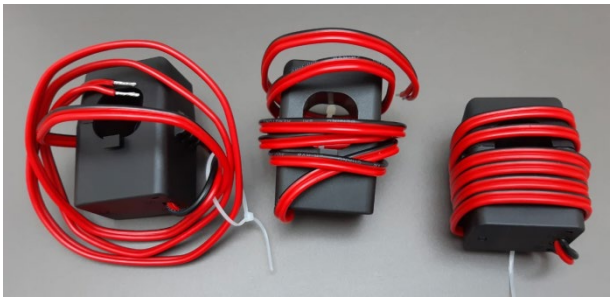
- Phase R measurement with terminals connected to PIN 1 (red wire) and PIN 3 (black wire)
- Phase S measurement with terminals connected to PIN 4 (red wire) and PIN 6 (black wire).
- Phase T measurement with terminals connected to PIN 7 (red wire) and PIN 9 (black wire).

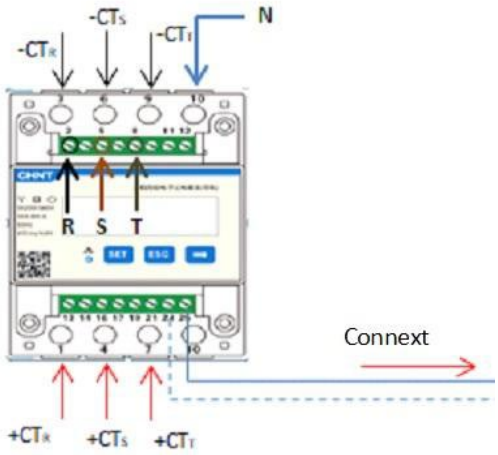
Position the sensors, paying attention to the indication on the sensor itself (arrow).

CAUTION: Only attach the CTs to the phases after connecting them to the Meter.

The connection between the Meter and the Azzurro HUB is made via the RS485 serial port. On the Meter, this port is identified by PINS 24 and 25; on the Azzurro HUB, they are PINS 9 and 10







respectively.



Meter Configuration

To configure the device in reading mode, you must access the settings menu as follows:

1. Press **SET;** the message **'CODE'** will appear



2. Press **SET** again; the number "600" will appear:



3. Enter the number "701":
   a. From the first screen where the number "600" appears, press the "→" button once to enter the number "601".
   b. Press "SET" twice to move the cursor to the left, highlighting "601";
   c. Press the "→" key once more until the number "701" is displayed

   Note: If an error occurs, press "ESC" and then "SET" again to reset the required code.



4. Confirm by pressing **SET** until you enter the settings menu.
5. Access the following menus and set the parameters as indicated:
   a. **CT**:
      i. Press **SET** to enter the menu
      ii. Enter "40":
         1. From the first screen where "1" appears, press the "→" button several times until the number "10" is displayed.
         2. Press "SET" once to move the cursor to the left, highlighting "10"
         3. Press the "→" button several times until the number "40" is displayed

Note: If an error occurs, press “SET” until the thousands digit is highlighted, then press “→” until only the number “1” appears;
at this point, repeat the procedure described above.





i. Press “ESC” to confirm and “→” to move to the next setting.

b. **ADDRESS**:
   i. Press **SET** to enter the menu:
   ii. Enter “**” (by pressing “→” once from the “01” screen). (Address 01 for exchange meter, 02/03/04 for external production meter)
iii. Press “ESC” to confirm.





4.9. Connection of the ZSM-IRR-TEMP-LM5 radiation and temperature sensor

METER TYPE	COMPATIBLE SENSOR MODEL
1PH	ZSM-IRR-TEMP-LM5
3PH	

To connect the RS485 to the radiation and temperature sensor, connect the 2-pin cable to the appropriate pins on the connector.
For the power supply connection, an external 12V power supply is required, to be connected to the appropriate pins on the connector
Follow the polarity shown in the figure and the pinout in the table.

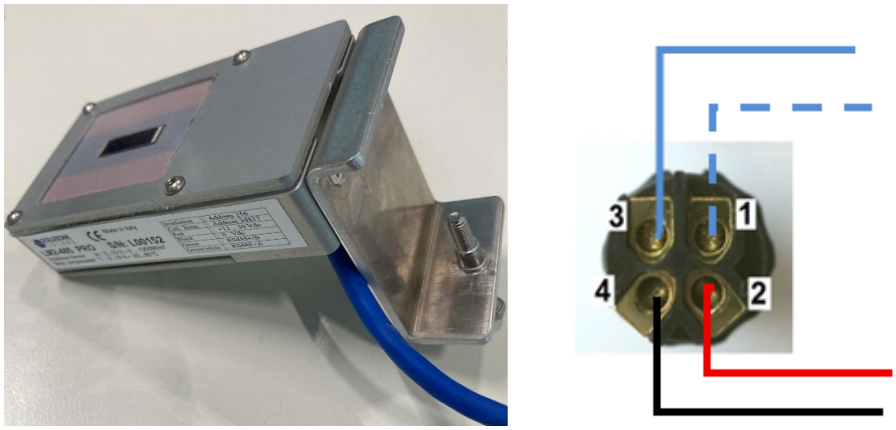


Figure21– ZSM-IRR-TEMP-LM5 sensor pin connections

PIN ZSM-IRR-TEMP-LM5	WIRE COLOUR	PIN LIGHT BLUE HUB [A]	PIN LIGHT BLUE HUB [A2]
1	White and blue cable	9	7
3	Blue cable	10	8
2	Positive power cable (+12Vdc)		
4	Negative power supply cable (0 Vdc)		

Note	**For connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

Note	**The ZSM-IRR-TEMP-LM5 radiation and temperature sensor has been implemented from HUB software version 900.200 onwards.** **If the Hub is running an earlier software version, please update it to the latest available version using the appropriate procedure**

The irradiance and temperature data measured by the sensor will be visible on the ZCS Azzurro Portal, on the system's dedicated page.

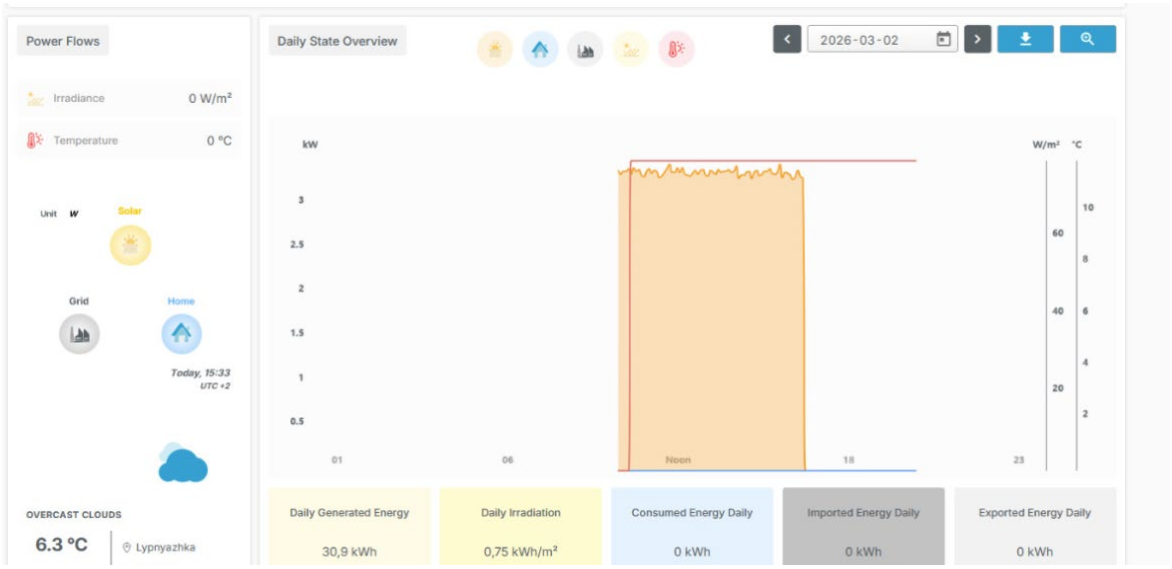


Figure22– Screen showing the temperature/radiation sensor on the monitoring portal

4.10. Connection to ZCS Azzurro heat pumps

To connect the RS485 port to heat pumps from the ZHP-1PH-xx.xK-M or ZHP 3PH-xx.xK-M series, a dedicated 7.5m extension cable is included in the heat pump installation kit

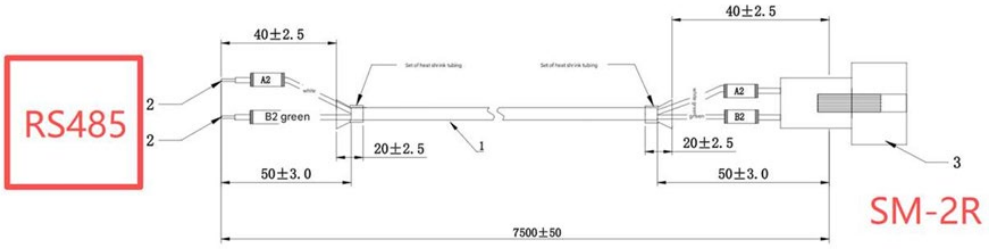


Figure23– Extension cable for RS485 heat pump connection

Access the heat pump's connection compartment on the right-hand side

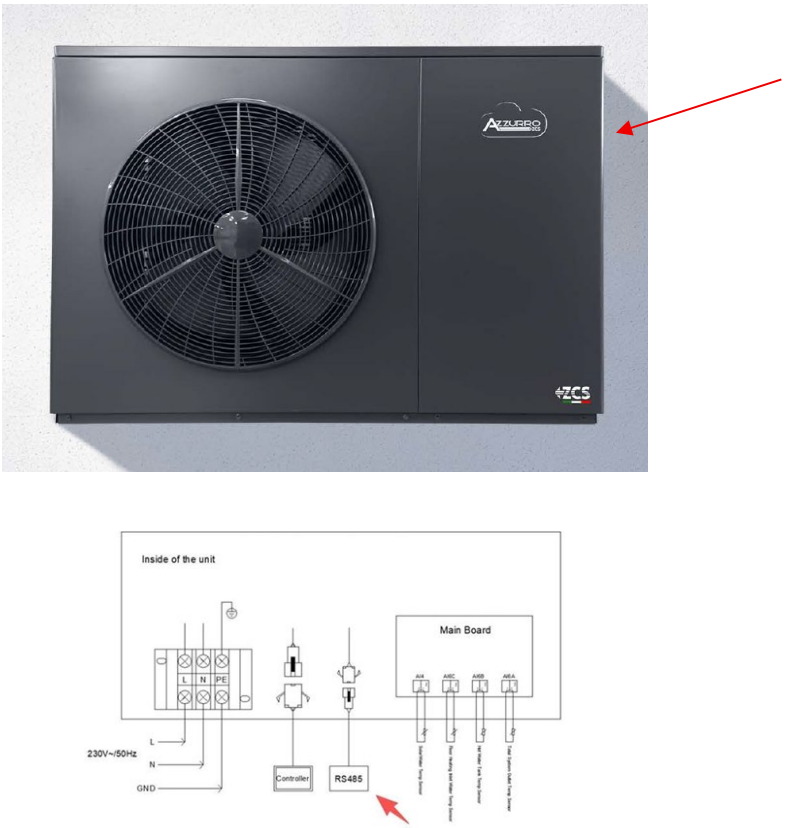


Figure24– Heat pump connection compartment and RS485 wiring diagram

Connect the pins on the extension cable marked A2 and B2 as shown in the diagram:

PIN Heat pump extension cable	PIN LIGHT BLUE HUB [A]	PIN AZZURRO HUB [A2]
A2	11	7
B2	12	8

Note	**For the connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

4.11. Connection to the water heater in the Azzurro ZCS heat pump

To connect the RS485 port on the ZHP-WHxxxL-MN series heat pump water heater, connect the cable to the RS485 port on the water heater's main board.

Access the main board by opening the top panel of the heat pump water heater



Figure25 – water heater connection compartment and RS485 wiring diagram

Connect the pins as shown in the diagram:

PIN Water heater	PIN BLUE HUB [A]	PIN AZZURRO HUB [A2]
RS485A	11	7
RS485B	12	8

 **Note**	**For connection, use only certified twisted-pair, shielded cables for RS485 communication** **The shield must be earthed at only one end of the cable (typically on the master device side), in order to reduce electromagnetic interference**

5. Initial start-up and configuration of the Azzurro HUB

The Azzurro HUB allows for simple commissioning via a mobile device by using a web server accessible locally via an access point. The steps below allow you to configure the device once all connections to the ZCS inverter, ZCS evcharger, ZCS meter, ZCS heat pumps and the LAN network (if used) have been correctly established.

Note	**The images shown below may differ slightly from the actual ones due to possible software updates**

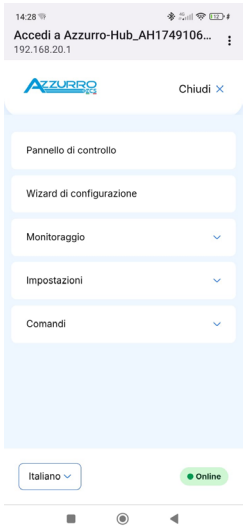
5.1. Step 1 – Connecting to the Access Point

Follow the steps described below to connect:

1) Locate the QR code on the side of the Azzurro HUB and scan it using your mobile device
2) Your mobile device will ask for permission to connect to the network created by the Azzurro HUB; grant permission and tap the “Go to Azzurro HUB” button
3) Your mobile device will open the home page at the IP address 192.168.20.1:55560

5.2. Step 2 – Configuration wizard

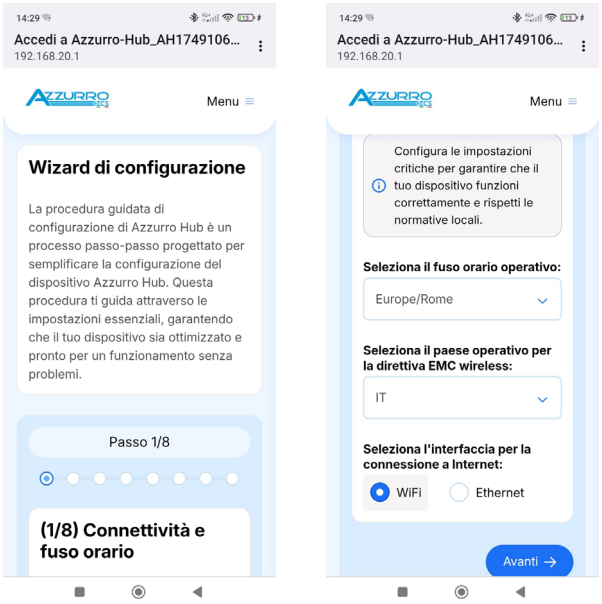
Azzurro HUB features a configuration wizard, which can be accessed by clicking the ‘Configuration Wizard’ button on the home screen



The wizard consists of 8 sequential steps that guide you through the entire configuration process

5.2.1. Step 3 – Internal clock and connectivity

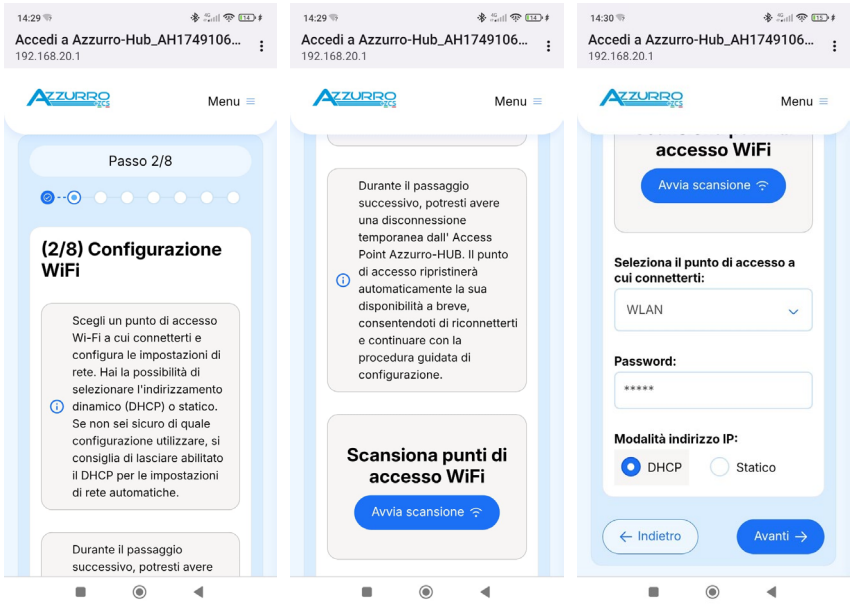
Select the correct time zone for the internal clock and choose either Wi-Fi or an Ethernet cable connection



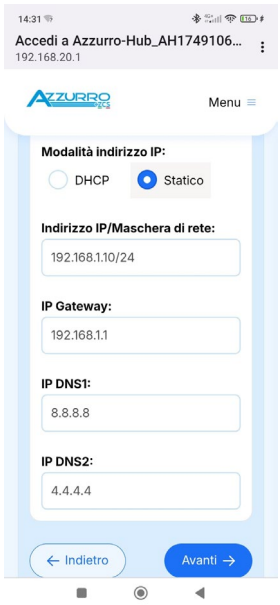
Note: for systems with a PSC100, use the Ethernet option only

5.2.2. Step 4 – Wi-Fi network connection

Scan for Wi-Fi networks within range of the Azzuro HUB and select the network to connect to by entering the correct network password.



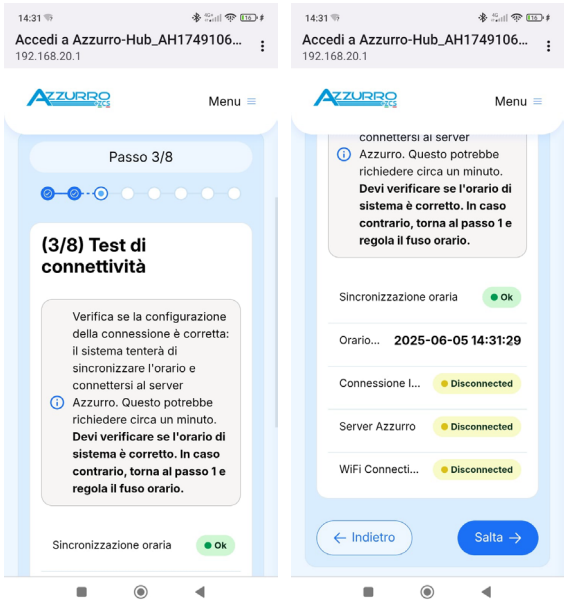
The HUB device can also be set to operate with a static IP address by selecting this option in the configuration.



Note: The HUB's IP address must be on the same subnet as the IP addresses set in the PSC100s

5.2.3. Step 5 – Connectivity test

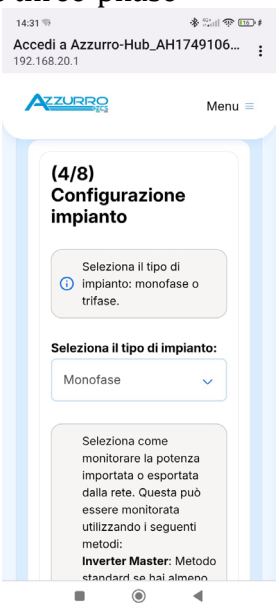
Once the Wi-Fi has been set up correctly, or if you have already connected the Ethernet cable to the router or local network switch, the system will carry out a connectivity test



If any of the connectivity tests fail, it will not be possible to view the data correctly on monitoring systems such as apps and portals.
If the result shows ‘disconnected’, check that the Wi-Fi passwords are set correctly and that port 80 on the router is open.

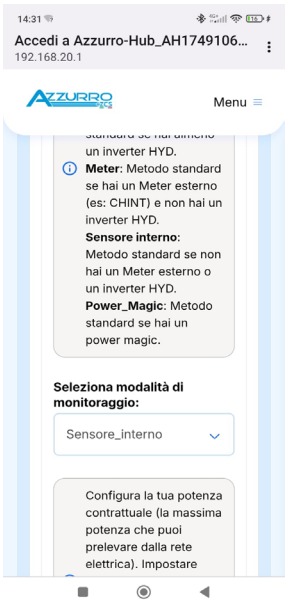
5.2.4. Step 6 – Installation

This step of the configuration requires details of the electrical installation to which the devices are connected.
These steps must be carried out carefully to provide the correct information to the Azzurro HUB.
Firstly, the HUB asks whether the system is single-phase or three-phase, referring to the electrical system connected to the network operator; enter 'single-phase' if the exchange meter is single-phase, or 'three-phase' if the exchange meter is three-phase

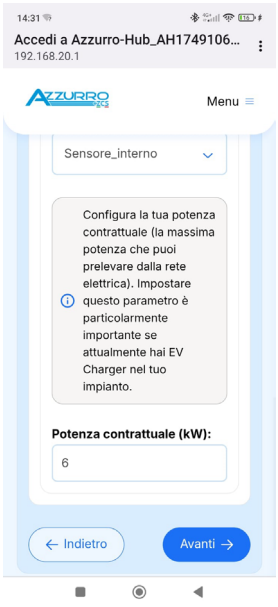


The HUB also asks which device is taking the measurements at the interconnection point, offering four options:

- ***MASTER hybrid inverter*** – use this option if there is one or more hybrid inverters; in this case, the master performs the net metering measurements and the HUB obtains these measurements by requesting them from the master
- ***Meter*** – use this function when there are no hybrid inverters and the exchange reading is taken by a meter directly connected to the Azzurro HUB
- ***Internal sensor*** – use this function if the feed-in point reading is taken by a current sensor directly connected to the Azzurro HUB
- ***Power Magic*** – use this function if the Azzurro HUB is connected to a Power Magic
- ***None*** – use this function if there is no need to monitor the exchange point



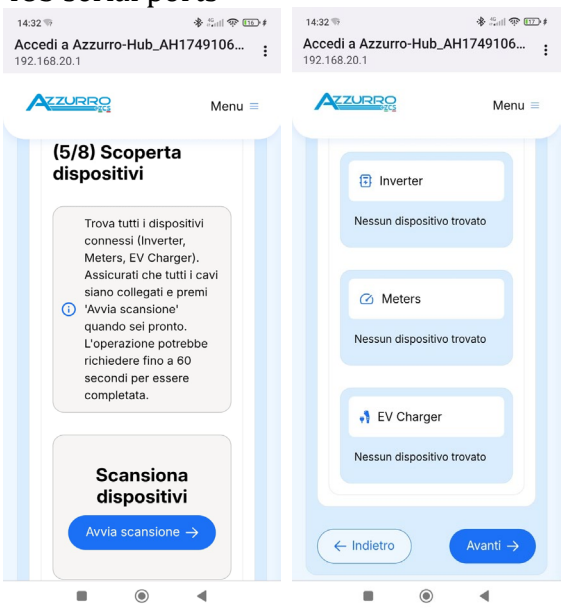
The HUB also asks for the contracted power, meaning the power specified in the contract with the network operator for electricity consumption.



Note	**DO NOT enter the power rating of the photovoltaic system here; instead, enter the contracted power rating for electricity consumption as agreed with the network operator**

5.2.5. Step 7 – Connected devices

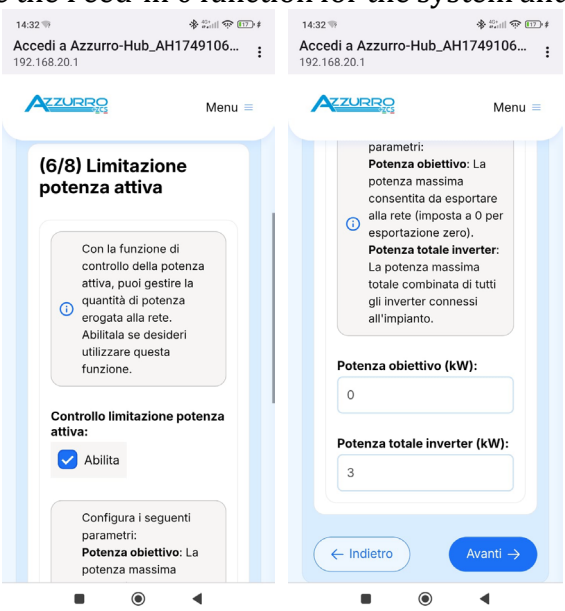
By clicking on 'Start scan', the system will automatically detect any inverters, meters or EV chargers correctly connected to the RS485 serial ports



Note: if you are pairing the HUB with the PSC100, skip this scan.

5.2.6. Step 8 – Feed-in 0 function

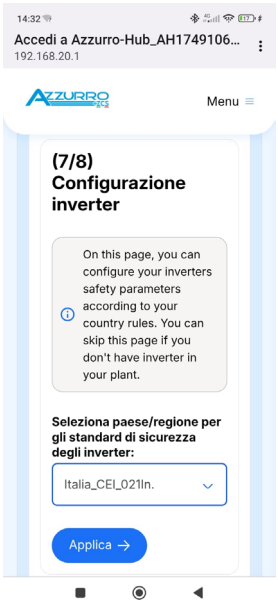
In this section, you can enable the Feed-in 0 function for the system and set the desired target power



Note: If you are connecting the HUB to a PSC100, this function must not be enabled

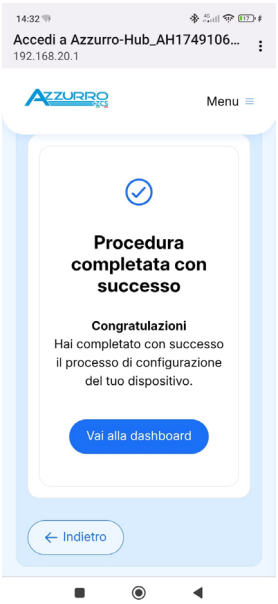
5.2.7. Step 9 – Selection of inverter connection standards

Click on the section “Select country/region for inverter safety standards:” and select the correct connection standard.



5.2.8. Step 10 - End of procedure

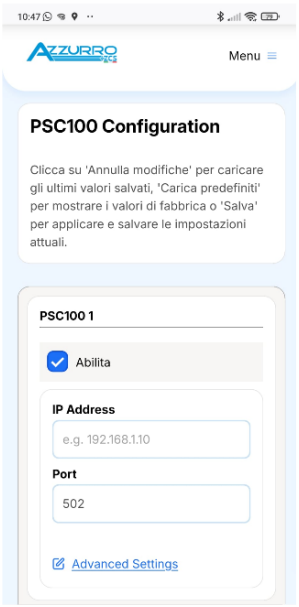
Once the configuration procedure is complete, you will be able to access the Azzurro HUB dashboard to make adjustments, changes or simply check the settings



Note: if you are connecting the HUB to a PSC100, proceed to Step 11

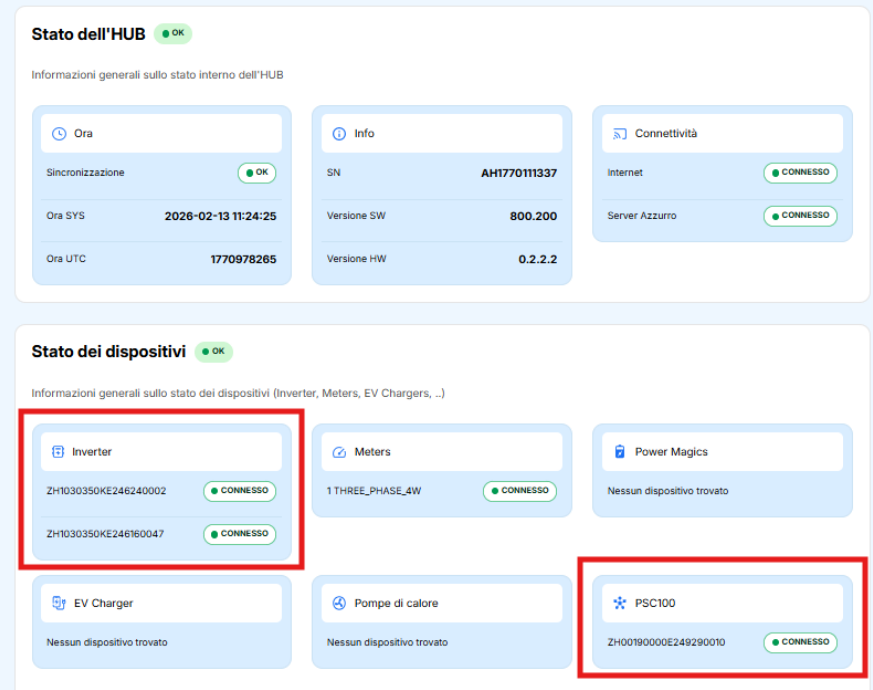
5.2.9. Step 11 – PSC100 configuration

From the “Settings->Devices” menu, select “PSC100 Configuration” (Password: 0715)
By ticking “Enable”, you will be able to register the static IP address already configured in the PSC100. See the document “Commissioning_PSC100_RevX.X”



Note: after clicking "Save", you will be able – if necessary – to access the PSC100 homepage via Advanced Settings. For instructions, refer to the "Commissioning_PSC100_RevX.X" guide

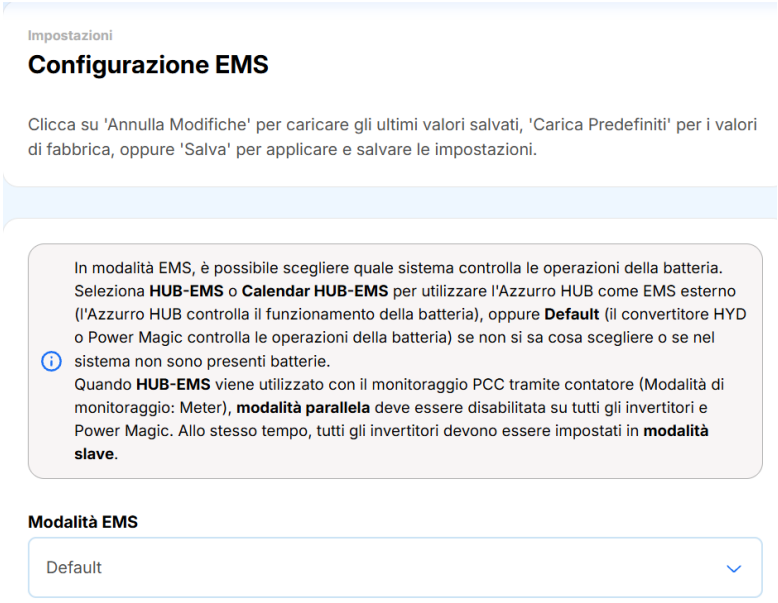
Once this operation is complete, the PSC100 and the inverters connected to it will be visible in the "Control Panel":



5.2.10. Special function settings (EMS, CCI, dry contacts, other)

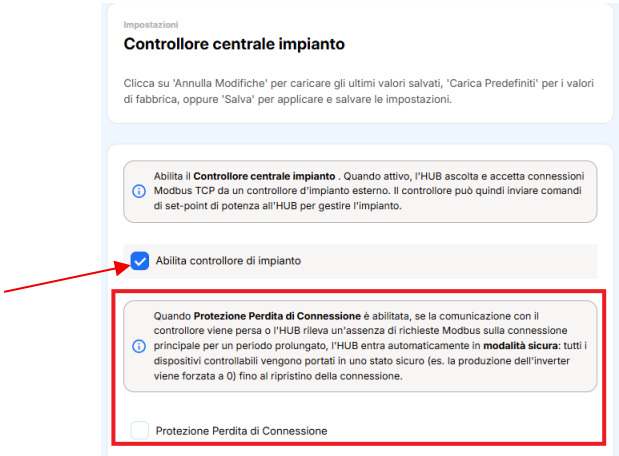
EMS mode

Via the 'Settings -> System -> EMS Configuration' menu, select 'HUB-EMS' from the drop-down menu



CCI Communication Configuration

Via the "Settings -> System -> Central System Controller" menu, enable communication with the CCI



Please refer to the documentation published online at www.zcsazzurro.com regarding the use of the CCI in systems with Azzurro inverters for further details on communication and protocols.

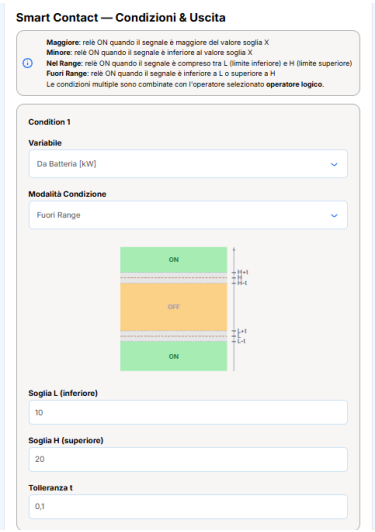
Configuration of Clean Contacts

Via the “Settings -> Functions -> Smart Contacts” menu, access the configuration menu for the desired clean contacts

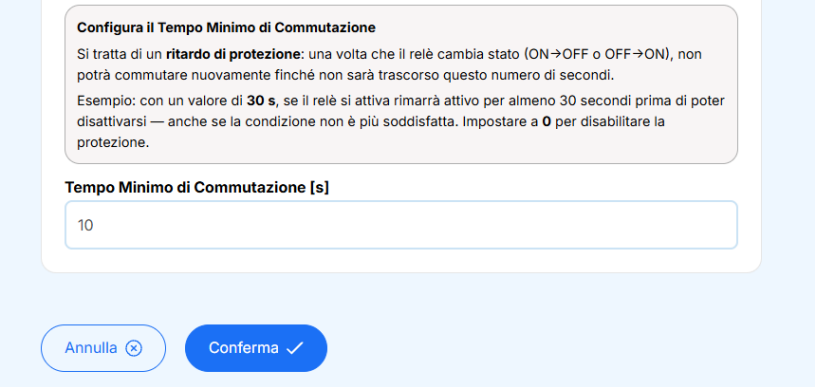
Assign a name to the function and, if required, set a schedule for the function



Set the control variables, the on/off conditions and the desired limits

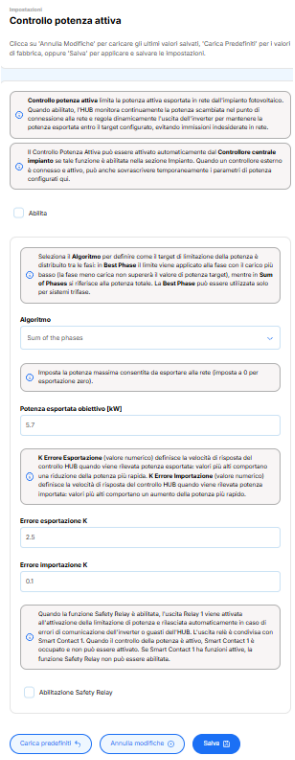


If necessary, set a minimum duration for the contact state and confirm your selections



Controlled Input Configuration

Via the “Settings -> System -> Active Power Control” menu, access the input power configuration menu



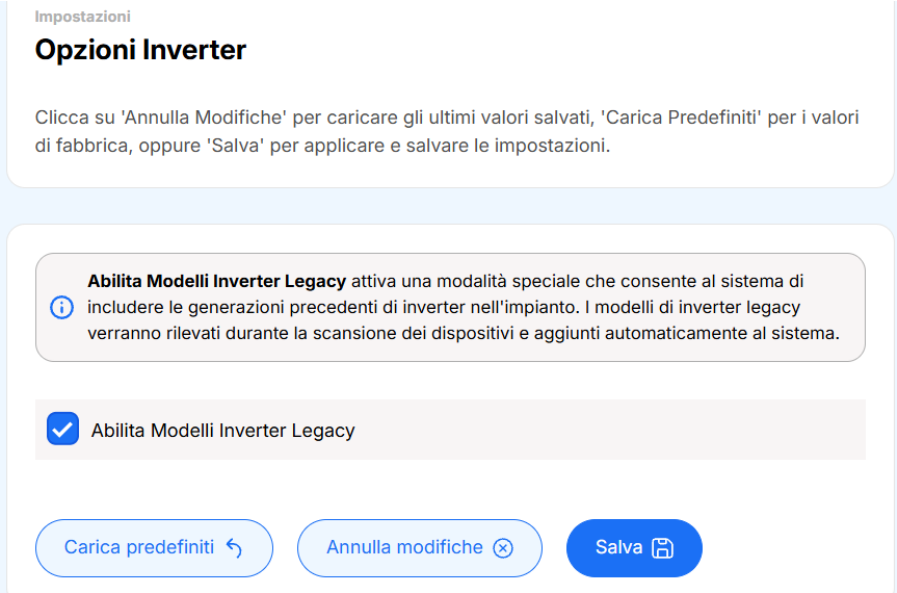
Select the input power control mode and the desired target value

Configuration of communication with V1 inverter models

To manage inverter models with V1 communication protocols, this function must be enabled.

Go to the “Settings -> Devices -> Inverter Options” menu to access the configuration menu

Tick the ‘Enable Legacy Inverter Models’ box



Azzurro IA Energy Sense configuration

To enable control via the Azzurro HUB, which provides weather forecasting, energy price monitoring and AI-guided optimisation, you must select this function

Go to the “Settings -> Functions -> Azzurro AI EnergySense” menu to access the configuration menu. Follow the on-screen instructions

Enabling remote support access

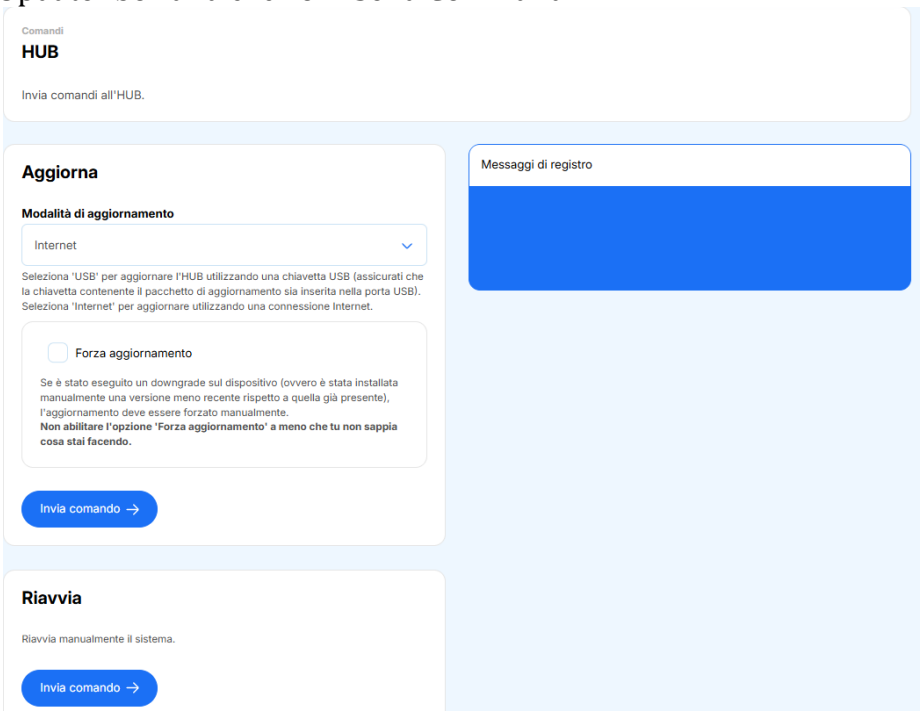
To enable remote support access, you must enable this option

Go to the “Settings -> Remote Support” menu to access the configuration menu and confirm your selection

5.2.11. Firmware update via web server

Go to the “Commands -> HUB” menu to access the update menu

Tick the “Force Update” box and click on “Send Command ->”



Wait for the update to complete, monitoring the status on the right-hand side under ‘Log Messages’

If necessary, you can force a restart of the Azzurro HUB in the “Restart” section

6. Uninstallation

6.1. Uninstallation steps

- Disconnect the system/device from the power supply.
- Disconnect the device from the mains.
- To remove the signal cables from the device:
- Remove the device from the DIN rail.

6.2. packaging

If possible, pack the device in its original packaging.

6.3. Storage

Store the device in a dry place at a temperature between -25 and +60°C.

6.4. Disposal

Zucchetti Centro Sistemi S.p.A. accepts no responsibility for the disposal of the equipment, or any parts thereof, if this does not comply with the regulations and standards in force in the country of installation.



The crossed-out wheelie bin symbol indicates that the equipment, at the end of its useful life, must be disposed of separately from household waste.

This product must be taken to the local authority's waste collection point for recycling.

For further information, please contact your local waste collection authority.

Inappropriate waste disposal may have a negative impact on the environment and human health due to potentially hazardous substances.

By helping to ensure this product is disposed of correctly, you are contributing to its reuse, recycling and recovery, and to the protection of the environment.

7. Warranty Terms and Conditions

To view the warranty terms and conditions offered by Zcs Azzurro, please refer to the documentation included in the product box and on the website www.zcsazzurro.com.



zcsazzurro.com



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