

Basic Controller

Compact Control and Monitoring for PV or water systems

The EcoPhi Basic Controller is a powerful and flexible solution for monitoring and remote control of different types of systems. Acting as a central unit, it enables detailed data collection and analysis, ensuring reliable and efficient system operation.

Key Features:

- ✓ **High-Resolution Data Logging** – real-time monitoring of inverters and other system components for precise performance tracking.
- ✓ **Remote Control** – seamless control of connected devices from anywhere.
- ✓ **Expandable Sensor Integration** – up to three additional sensors for comprehensive system analysis.
- ✓ **Seamless Integration** – compatible with Modbus (RTU/TCP), MQTT, and other protocols for smooth communication
- ✓ **Flexible Design** – available with or without casing

With the EcoPhi Basic Controller, you maintain complete oversight of your systems - efficient, reliable, and easy to use.



Benefits

- ✓ Simple and complex logic circuits on site
- ✓ Local storage and smart data transfer after blackouts
- ✓ Easy to install, Up and running in 3 minutes
- ✓ Remote and On-Site control
- ✓ Zero feed-in regulation
- ✓ Individual functions and logics

Ideal for

- ☛ PV systems with advanced requirements up to 250kW e.g. systems of commercial/industrial sizes or minigrids.
- ☛ Multiple distributed systems, hybrid or solar water systems.
- ☛ On-site and remote control functions for devices such as batteries, gensets, and other system components



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Technical Specifications

Interfaces and connections

RS232 interface	1
RS485 interface	1
No. of inverter, controller, genset connections	32
No. of different inverter, controller, genset types	2
Sensor connections	3
Analog sensors	✓
Digital sensors	✓
Pulse sensors	✓

Data transfer

WiFi	2.4 GHz Antenna
GSM	✓(2G, 3G,4G) 5dBi
LAN	✓
Data transfer after connection losses	✓

Control and logic

On-site logic circuits	✓
Remote control of inverters	✓
No. of relays	3
Remote control of relays	✓
Edge calculations	✓

Data storage

SD card	✓ up to 32 GB
Local data storage	✓ 8 Days (4MB)

Power Supply

External power supply	12 - 30V DC, 100-250V AC
Power supply directly from inverter connection	✓
Backup power	2 Ah

Box setup

Setup software	✓
Change EcoPhi Box setting via Platform	✓
Change EcoPhi Box setting via SMS	✓

More

On-site Alarms	✓
SMS Alarms	✓
Dimensions (Height, width, depth)	200 x 300 x 130 mm
Weight	1.95 Kg