



Advanced remote monitoring for many use cases Up to 500 kWp

The inverter as the central unit of the solar system already provides important data about your plant. With the Advanced Box, you can easily transfer and visualize this data. You can connect up to three sensors for additional information. It also allows you to control devices remotely. The Advanced Box is easy-to-install and is able to communicate with most of the inverters.



Basics

- ✓ Advanced monitoring with the essential system data and additional sensors
- ✓ High data resolution requirements
- ✓ Good overview of your system
- ✓ Multiple distributed systems
- ✓ Remote control of the system
- ✓ Hybrid systems



Features



Up and running in 3 minutes

The Advanced Box is easy to install. Inverters can easily be connected and sensors are supplied with reverse polarity protection as a plug & play solution.



Easy-to-install box

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Wide range of sensors

Especially for applications in the fields of solar, energy and water supply, we have carefully compiled a selection of suitable sensors.



Local data storage

The data is also stored on an SD card locally and can be downloaded via USB stick if required. In this way, technicians on-site have access to the system data even in the event of network failures.



Smart data transfer

Network failures are detected automatically by the device. During weak or lost connectivity, data is collected even over long periods of time. As soon as the system has signal again, the data is sent and no data gaps will occur.

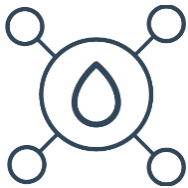


Special functions and controls



Remote control

With our Advanced Box, you can remotely control your systems with your personal access to the EcoPhi Platform.



On-site control

Besides remote control from the platform, our Advanced Box also automatic control of the systems based on numerous logic circuits (PLC).



Zero feed-in regulation

Specific functions such as zero feed-in limitations are possible with the Advanced Box, though the Pro Box is recommended due to faster performance.



Fuel Saving

If you have an additional genset, fuel saving functions are possible with the Advanced Box, though the Pro Box is recommended due to better performance.



Individual functions and logics

With the Advanced Box, you are able to run individual logic scripts. With this, you can automatically control your systems on-site depending on different inputs.



Use cases



Solar systems

The Advanced Box is the perfect fit for solar systems up to 500 kW. It can be used for on- and offgrid systems. Such as C&I systems or middle sized minigrids.



Water supply systems

Besides getting the data from the pump inverter, up to three different sensors can be connected optionally to receive additional information about the system.



Control functions

On-site and remote control of devices such as gensets. The Advanced Box can be used to control systems either remotely or based on parameters on-site.



The most important information at a glance

Function	
Interfaces and connections	
RS232 interface	1
RS485 interface	1
Ethernet interface	1
N° of inverter, controller, genset connections	32
N° of different inverter, controller, genset types	2
Sensor connections	3
Analog sensors	✓
Digital sensors	✓
Pulse sensors	✓
Sensor extension box connection	✓
Data transfer	
Wifi	✓
GSM	✓ (2-4G)
LAN	✓
Data transfer after connection losses	✓
Control and logic	
On-site logic circuits	✓
Remote control of inverters	✓
N° of relays	3
Remote control of relays	✓
Edge calculations	✓
Data storage	
SD card	✓
Local data storage	✓
Power supply	
External power supply	12 - 30 VDC, 100-250VAC
Power supply directly from inverter connection	✓
Backup power	2 Ah
Box setup	
Setup software	✓
Change EcoPhi Box settings from platform	✓
Change EcoPhi Box setting via SMS	✓
More	
On-site alarms	✓
SMS alarms	✓
Dimensions	200 x 300 x 130mm
Weight	1.95 kg



EcoPhi

Renewables Engineering

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