

iBOX Standard I8020 / Premium I8040

iBOX Standard and Premium include an iGate+ data logger and are used to monitor a photovoltaic system with integrated web server as well as data transmission via GSM, GPRS or DSL support. The built-in input-output module of the Premium variant also offers the possibility to connect sensors for measuring irradiation, temperature or SO pulses to the iGATE. Furthermore, an integration of several inverter types is feasible.

Overview

- ✓ Connection of different inverters via Ethernet or RS485 interface
- ✓ Maximum connection of 100 inverters to one data logger
- ✓ Transmission of alarms and inverter data via GSM, GPRS or DSL connection to our web portal
- ✓ Possible forwarding of alarms and system results from the portal to any e-mail addresses
- ✓ Storage of inverter data in 5-, 10- or 15-minute intervals
- ✓ Delivery of preset iGate+ data loggers
- ✓ Possible configuration and execution of firmware updates of the iGate+ data loggers via remote access
- ✓ Support for up to three inverter manufacturers on one iGate+ data logger
- ✓ Prerequisites are a 230VAC connection and a connection to the inverters
- ✓ iGate+ data loggers are continuously online and can be used worldwide
- ✓ Optimal network coverage via Vodafone SIM cards with roaming function
- ✓ Support of a protocol connection via IEC-60870-5-101 and -104 to the grid operator and direct marketer using the iGate+ data loggers
- ✓ Support of active power reduction, reactive power specification and cosphi control via I-O modules or meters with suitable interface
- ✓ Details of supported inverter manufacturers, irradiation sensors, weather stations, grid operators and direct marketers on request

Subject to technical changes

Technical data

- ✓ Power supply: 12 to 50V DC, typically 24V DC
- ✓ Power consumption: 10 W
- ✓ Operating temperature: - 20 °C to + 65 °C
- ✓ Rel. humidity: 10 to 85 %
- ✓ Installation: Wall assembly
- ✓ Case (W x H x D):
290 mm x 300 mm x 150 mm
- ✓ Weight: 2 Kg



Interfaces

- ✓ 1 x 1000/100/10 Mbps Gigabit Ethernet
- ✓ 4 x 100/10 Mbps Fast Ethernet Switch
- ✓ 2 x USB
- ✓ 2 x RS485, expandable up to 6x RS485
- ✓ 1 x UMTS / LTE modem
- ✓ WLAN integrable
- ✓ LoRa integrable
- ✓ Scalable number of analog and digital inputs and outputs

Features

- ✓ Inverter monitoring
- ✓ Feed-in management and power control active power
- ✓ Power Control Reactive Power and Cosphi Control
- ✓ Direct marketing
- ✓ Integration of irradiation sensors and weather stations
- ✓ Remote access / inverter firmware update / camera access
- ✓ iSOL Portalplattform (with iView Portal)

