Data sheet | Item number: 2854-099/000-003

IoT-Box; Energy Data 4G

www.wago.com/2854-099_000-003

i Picture differs from the item.

Item description

Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box Energy Data 4G.
This IoT Box features power and energy measurement functionality and is ready for immediate use. It also offers all the functions required for digitalization, from signal acquisition to cloud connectivity.
The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.
The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs, a 3-phase power measurement module and a 24 V power supply unit.

The integrated 4G cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

This IoT Box includes:

- Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module 4G: 750-8217
- Magnetic-Mount Antenna; with 2.5 m cable and SMA plug; GSM/UMTS/LTE/Bluetooth®/WLAN; 698-960, 1400-1518, 1710-2700 MHz: 758-975
- Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal: 787-1606
- 8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection: 750-1415
- 8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection: 750-1515
- 8-Channel Analog Input; resistance measurement; adjustable: 750-451

Subject to changes. Please also observe the further product documentation!

- 4-Channel Analog Input; voltage/current; differential input; 16 bits; diagnostics: 750-471

- 3-Phase Power Measurement; 690 VAC; 1 A: 750-495/000-002

- Rogowski Coil; Primary rated current: 4000 A; Output signal: 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor: 70 mm: 855-9150/2000-701

- End Module: 750-600

- SD Memory Card; pSLC-NAND; 8 GB; Temperature range: −40 … +90 °C: 758-879/000-2108

- IoT Box application (installed and licensed)

- Circuit breaker; 1-pole; C 10 A; 10 kA

- Electrical circuit breaker; 1-pole; 24 VDC; 1 … 8 A

- Set of wall-mount lugs

- Cable grips M16; M20; M25

- Connectors (plug and socket) for power supply

Data
Technical data

Communication	ETHERNET
	RS-232 serial interface
	RS-485 interface
	MQTT
ETHERNET protocols	DHCP
	DNS
	FTP
	FTPS
	HTTP
	HTTPS
	SSH
Visualization	Web-Visu
Services	GPRS connection to Internet
Radio technology	GSM/UMTS/LTE
Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	ETHERNET: 10/100 Mbit/s
Supply voltage	230 VAC; (L/N/PE); 50 Hz

Physical data

Width	300 mm
Height	300 mm
Depth	210 mm

Subject to changes. Please also observe the further product documentation!

Mechanical data

Weight	9431.1 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 … +45 °C
Surrounding air temperature (storage)	-40 … +85 °C
Protection type	IP20
Note on protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree (5)	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount

Commercial data

PU (SPU)	1 Pieces
Packaging type	box
Country of origin VKOrg Germany	QU
GTIN	4055144092448
Customs tariff number VKOrg Germany	85371091990

Downloads
Documentation

Manual

WAGO Applikation IoT-Box	2.1.0 2021 Jun 23	pdf 4.9 MB	Download

Bid Text

2854-099/000-003 X81 - Datei		xml 8 B	Download
2854-099/000-003 docx - Datei		docx 26 B	Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2854-099/000-003	URL	Download
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Installation Notes

Subject to changes. Please also observe the further product documentation!

WAGO Corporation	Do you have any questions about our products?
Germantown, WI 53022	We are always happy to take your call at +49 (571) 887-44222.
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222	
Email: info.us@wago.com | Web: www.wago.us	