



Integrating machines and systems into the “Internet of Things” is incredibly quick and easy with the WAGO IoT Box Energy Data. 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. Setting a few parameters is all that is required in order to get the data to the desired IoT application.

The hardware includes a controller with a communication interface, I/O modules with analog and digital inputs and outputs, a 3-phase power measurement module and a 24 V power supply unit.

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

The IoT Box includes:

- Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485: 750-8212
- 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
- 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: 1000 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
- Electronic 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
- 16 x TOPJOB® S; Double-Deck Terminal Block; with push-button

This item includes:							
							
Item No.: 249-116	9	Item No.: 750-451	1	Item No.: 750-1415	1	Item No.: 750-1515	1
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray		8-channel analog input; Resistance measurement; Adjustable		8-channel digital input; 24 VDC; 3 ms; 2-conductor connection		8-channel digital output; 24 VDC; 0.5 A; 2-conductor connection	
							
Item No.: 787-1606	1	Item No.: 2002-1492	1	Item No.: 750-600	1	Item No.: 750-495/000-002	1
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal		End and intermediate plate; 0.8 mm thick; orange		End Module		3-Phase Power Measurement; 690 VAC Rogowski coils	
							
Item No.: 855-9150/2000-701	4	Item No.: 2002-2792	2	Item No.: 2202-1401	2	Item No.: 2202-1407	1



This item includes:				
Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 70 mm		End plate; 0.8 mm thick; orange		4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 2,50 mm²; gray
				
Item No.: 750-8212	1	Item No.: 750-471	1	Item No.: 2202-2701
Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485		4-channel analog input; Voltage/Current; Differential input; 16 bits; Diagnostics		Double-deck terminal block; with push-button; Through/through terminal block; L/L; without marker carrier; suitable for Ex e II applications; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP®; 2,50 mm²; gray
				
				Item No.: 758-879/000-2108
				Memory Card SD; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

Technical data	
Communications	ETHERNET RS-232 serial interface RS-485 interface MQTT
ETHERNET protocols	DHCP DNS FTP FTPS HTTP HTTPS SSH
Visualization	Web-Visu
Transmission 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

Mechanical data	
Weight	9236.9 g
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	0 ... +45 °C
Ambient 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	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount
Fire load	11.511 MJ



Commercial data	
ETIM 9.0	EC002581
ETIM 8.0	EC002581
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966144246

Environmental Product Compliance	
CAS-No.	12626-81-2 1303-86-2 1317-36-8 693-98-1 7439-92-1 75980-60-8 79-94-7 80-43-3
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide Lead titanium zirconium oxide (Pb(Ti,Zr)O3) Perfluorobutane sulfonic acid (PFBS) and its salts Peroxide, bis(1-methyl-1-phenylethyl) Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	5ad46919-899b-4a8f-a1a9-af95cdb8c0f0
SCIP notification number (Belgium)	5b98b5dc-bc31-437e-b65d-75b2415df746
SCIP notification number (Bulgaria)	b4daa4a9-9591-4161-a439-7172ed3ef0a9
SCIP notification number (Czech Republic)	8908e220-df15-4afb-b86a-e5842e5d3883
SCIP notification number (Denmark)	bd07b286-668c-4b81-aac6-ea26b93d8da0
SCIP notification number (Finland)	c2b60184-da2a-4289-b5d3-71c396866d7d
SCIP notification number (France)	4653e4f4-0571-4d64-87e8-2bb220e9afdd
SCIP notification number (Germany)	c769004a-7500-40be-887b-73c76ed5055b
SCIP notification number (Hungary)	0c0f06dd-b645-4c06-92de-ed44e56c3479
SCIP notification number (Italy)	60778ec5-a972-42d6-9a42-d767f4c0606b
SCIP notification number (Netherlands)	96862ecc-0631-4654-a01b-bccbddec25f31
SCIP notification number (Poland)	6372e43d-2ce3-457a-b849-ea6771450b0d
SCIP notification number (Romania)	39c17ab0-d650-4d17-9d07-aaea06d079ec
SCIP notification number (Sweden)	a2e4fb87-5860-4c72-a0e5-3e1f1e95514d

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2854-099/000-001	



Documentation				
Manual			Bid Text	
WAGO Applikation IoT-Box	2.1.0 23.06.2021	pdf 4792.77 KB	2854-099/000-001	docx 25.24 KB
			2854-099/000-001	xml 7.39 KB
				