

Technical data	
Communications	Modbus (TCP, UDP) EtherCAT® Master EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner Modbus RTU OPC UA Server/Client OPC UA Pub/Sub (can be installed later) MQTT RS-485 interface BACnet/IP, requires an additional license Telecontrol protocols, requires an additional license
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870 (additional license as slave or master) IEC 61850 (additional license as Client or Server) DNP3 (additional license as Slave or Master)
Visualization	Web-Visu
Operating system	Real-time Linux (with PREEMPT_RT patch)
CPU	2 x Cortex A7; 650 MHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	CODESYS V3.5 Node RED
Configuration options	CODESYS V3.5 Ethernet Settings Web-Based Management WAGOupload WAGO Solution Builder
Transmission rate	10/100 Mbit/s
Transmission medium (communication/fieldbus)	Twisted pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length
Main memory (RAM)	512 MB
Internal memory (flash)	4096 MB
Non-volatile hardware memory	128 KB
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128 KB
Type of memory card	microSD up to 32 GB (all guaranteed properties only valid with WAGO's memory card)
Memory Card Slot	Push-push mechanism
Indicators	LED (SYS, RUN), red/green: System status; LED (USR), red/green: User-programmable status (accessible via CODESYS library); LED (μSD), orange: microSD card status; LED (LNK/ACT), green: Network connection status via ports 1 ... 2; LED (DI1 ... 8), green: Status of inputs; LED (DO1 ... 8) green: Status of inputs and outputs
Control Elements	Operating mode switch (RUN, STOP, RESET); reset button
Supply voltage (system)	24 VDC (-15 ... +20 %); Via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Current consumption (system) max.	600 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); Via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Field current consumption max. (digital outputs) U_{in+}	4000 mA
Isolation	1250 V (DC 1 min., between system and field level (digital outputs))

Technical Data (Inputs/Outputs)

Digital inputs/outputs

Number of configurable digital inputs/ outputs	8
Signal type	Voltage
Output current (per channel)	500 mA (DC)
Input characteristic	Type 3 (per EN 61131-2)

Analog inputs/outputs

Number of analog inputs/outputs (configurable)	2
Resolution of analog inputs	16 bits
Input signal (current)	0 ... 20 mA; 4 ... 20 mA; 3.6 ... 21 mA
Input signal (voltage)	0 ... 10 V; ± 10 V
Resolution of analog outputs	12 bits
Output signal (current)	0 ... 20 mA; 4 ... 20 mA; 0 ... 22 mA
Output signal (voltage)	0 ... 10 V; ± 12 V; ± 10 V
Load impedance (voltage output)	≥ 1 k Ω
Load impedance (current output)	≤ 500 Ω

RTD inputs

Number of measurement inputs	2
Sensor types	Pt100 (-200 °C ... +850 °C); Pt200 (-200 °C ... +850 °C); Pt500 (-200 °C ... +850 °C); Pt1000 (-200 °C ... +850 °C); Ni100 (-60 °C ... +250 °C); Ni1000 (TK6180 (-60 °C ... +250 °C); Ni1000 (TK5000) (-60 °C ... +250 °C); Ni120 (-80 °C ... +260 °C); Potentiometer 0 Ohm ... 1.2 kOhm; Potentiometer 0 Ohm ... 4 kOhm

Digital inputs

Number of digital inputs	8
Input characteristic	Type 3 (per EN 61131-2)

Analog inputs

Number of analog inputs	2
Resolution of analog inputs	16 bits
Input signal (current)	0 ... 20 mA; 4 ... 20 mA; 3.6 ... 21 mA
Input signal (voltage)	0 ... 10 V; ± 10 V

Connection data

Connection technology: communication/fieldbus	Modbus (TCP, UDP): 2 x RJ-45; RS-485 interface: 1 x RJ-45; RS-485 interface: 1 x Female connector, 4-pole; Push-in CAGE CLAMP®
Connection technology: system supply	1 x Female connector, 2-pole; Push-in CAGE CLAMP®
Connection technology: field supply	2 x Female connector, 10-pole; Push-in CAGE CLAMP®
Connectable conductor materials	Copper
Solid conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	108 mm / 4.252 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	Polycarbonate, polyamid
Fire load	0 MJ
Weight	205 g
Conformity marking	CE; UKCA

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966618754
Customs tariff number	85371091990

Product Classification

UNSPSC	32151705
ETIM 9.0	EC000236
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

1 Compatible Products

1.1 Product Expansions

1.1.1 Runtime software



Item No.: 2759-2283/211-1000
Runtime; BACnet; 300; M; Single License; Online activation



Item No.: 2759-2273/211-1000
Runtime; BACnet; 300; S; Single License; Online activation



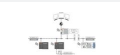
Item No.: 2759-283/211-1000
Runtime; BACnet; 300; Single License; Online activation



Item No.: 2759-2293/211-1000
Runtime; DNP3 Master; M; Single License; Online activation



Item No.: 2759-2290/211-1000
Runtime; DNP3 Slave; Single License; Online activation



Item No.: 2759-293/211-1000
Runtime; IEC60870 Master; M; Single License; Online activation



Item No.: 2759-290/211-1000
Runtime; IEC60870 Slave; Single License; Online activation



Item No.: 2759-2243/211-1000
Runtime; IEC61850 Client; M; Single License; Online activation

1.1.1 Runtime software



Item No.: [2759-2240/211-1000](#)

Runtime; IEC61850 Server; Single License; Online activation

Item No.: [2759-248/211-1000](#)

Runtime; Multi Cloud Connectivity; Single License; Online activation

Item No.: [2759-247/211-1000](#)

Runtime; Sparkplug; Single License; Online activation