



789-621	
RJ-45-Connector Pin Assignment:	
Pin	Function
1	Ub
2	n.c.
3	n.c.
4	A (Data+)
5	B (Data-)
6	n.c.
7	n.c.
8	GND

Communication Description:	
Modbus® Function	Read Holding Registers (0x03)
Address of Measured Value	0x0004
Data Type=Measurement	Integer

Error Numbers	
Id	Description
01	Illegal Function
03	Illegal Data
101	Overflow (Current > +83 A)
102	Underflow (Current < -3 A)

DIP Switch Adjustability ● = ON

Address	2	3	4	5	6	Terminating Resistor	DIP Switch 1
1						150 Ohm	●
2							
3							
4							
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32							

NOTICE:
Only set the Modbus® Address in the OFF state.

Item description

Short description:

WAGO's intelligent current sensor monitors solar plants or inverters for DC measurements within a large current measurement range. The sensor is mounted on DIN-35 rail.

Data

Technical data

Input

Input signal type	Current
Resolution [bit]	15 bits
Measured variable	Current

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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Input signal (current)	DC 0 ... 140 A
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Output – MODBUS

Number of devices (max.)	32
Connector	RJ-45
Bus length (max.)	1200 m
Terminating resistor	150 Ω (can be activated via DIP switch 1)

Communication

Communications	Modbus RTU
Interface	RS-485
Transmission channels	Half duplex; 8-bit data; 1 stop bit
Number of devices (max.)	32
Parity	Even
Terminating resistor	150 Ω (can be activated via DIP switch 1)
Bus length (max.)	≤ 1200 m
Transmission rate	19.2 kBd

Measurement error

Transmission error (typ.)	≤ 0.5 % of upper-range value (0 ... 80 A; at room temperature); ≤ 1 % of upper-range value (80 ... 140 A; at room temperature)
Temperature coefficient	≤ 0.05 %/K (-20 ... 60 °C); ≤ 0.1 %/K (60 ... 70 °C)

Power supply

Nominal supply voltage U_S	DC 24 V
Current consumption at nominal supply voltage	≤ 8 mA

Safety and protection

Protection type	IP20
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Connection data

Feedthrough for measurement conductor	$\varnothing 15$ mm
Connector	RJ-45

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



Physical data

Width	35 mm / 1.378 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
Housing design	DIN-rail-mount enclosure

Material data

Fire load	0.283 MJ
Weight	77.2 g

Environmental requirements

Ambient temperature (operation)	-20 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C

Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DIN EN 50178

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-21-01-23
eCl@ss 9.0	27-21-01-23
ETIM 9.0	EC002475
ETIM 8.0	EC002475
Recupel Type	
ECCN	NO DATA
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	85437090300

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

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 693-98-1 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide 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)	77c8081c-6149-43ad-b28b-7c56601f9766
SCIP notification number (Belgium)	e3396f50-a4cf-4f77-a7d7-25320edc160f
SCIP notification number (Bulgaria)	741bfe5a-e1c6-4324-89fd-3f11dde19a58
SCIP notification number (Czech Republic)	4195e3e5-51cf-4daf-a440-fc593724f950
SCIP notification number (Denmark)	da3beef3-994d-4204-affc-190d42a7f58f
SCIP notification number (Finland)	60059775-336d-407c-a2b6-82a275ee0d6e
SCIP notification number (France)	712103bd-a867-4175-a487-ea4bc4b2ad77
SCIP notification number (Germany)	3d38c7f1-e498-4a7c-aa7a-23e6c2a268f8
SCIP notification number (Hungary)	0239df3b-76a4-4702-903d-cf2571aabe95
SCIP notification number (Italy)	d1aa1855-d18e-4153-b74c-fb4a70cbdeb4
SCIP notification number (Netherlands)	87ac9cb5-b0f9-4ac2-b4c8-225d47d5e696
SCIP notification number (Poland)	2eb05be4-e438-4d5e-8d45-22e2e6b2cac4
SCIP notification number (Romania)	54d5e54c-bbb6-43f0-bbaa-877e88f58320
SCIP notification number (Sweden)	6a04aec0-1e65-4e6e-96b8-b63527d4f3f7

Standards and specifications

Standards/specifications	DIN EN 50178
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Commercial data

eCl@ss 9.0

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ETIM 9.0

ETIM 8.0

Customs tariff number

Technical data

Input

Input signal type	Current
Input signal (current)	DC 0 ... 140 A

Power supply

Supply voltage range	12 ... 34 VDC
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Mechanical data

Mounting type	DIN-35 rail
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083

Optional accessories

Interface module

Interface module


Item no.: 289-965

Interface module; 2xRJ-45; PCB terminal blocks, double-row; in mounting carrier

www.wago.com/289-965
Item no.: 289-966

Interface module; 2xRJ-45; PCB terminal blocks, double-row; in mounting carrier; with shield connection

www.wago.com/289-966

Cables and pluggable connectors

Connector plug

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



Item no.: 750-975
ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

www.wago.com/750-975

Downloads
Documentation

Bid Text

789-621 X81 - Datei	Jul 18, 2019	xml 5.1 kB	Download
789-621 docx - Datei	Jul 18, 2019	docx 16.4 kB	Download

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 Aug 18, 2022	pdf 2.2 MB	Download
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CAD/CAE-Data

CAE data

EPLAN Data Portal 789-621	URL	Download
WSCAD Universe 789-621	URL	Download
ZUKEN Portal 789-621	URL	Download

CAD data

2D/3D Models 789-621	URL	Download
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Asset Administration Shell

Asset Administration Shell 789-621	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 789-621	URL	Download
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Subject to changes. Please also observe the further product documentation!



Current signal conditioner; Current input signal: 140 ADC; Modbus RTU; Supply voltage: 24 VDC; Module width: 35 mm

Installation Notes

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