



789-621

RJ-45 Connector Pin Assignment

Pin	Function
1	LD
2	LD
3	LD
4	A (Data)
5	B (Data)
6	LD
7	LD
8	LD

Communication Description

Modbus Function	Read Holding Registers (0x01)
Address of Measured Value	0x0004
First Time Measurement	Integer

Error Numbers

01	Description
02	Integer Function
03	Register Data
101	OverFlow Current > +150 A
102	UnderFlow Current < -2 A

DIP Switch-Adjustability

* = ON

Address	2	3	4	5	6	Terminating Resistor	DIP Switch 1
1						150 Ohm	*
2							
3							*
4					*		*
5				*			
6			*				
7			*				
8			*		*		
9		*					
10		*					
11		*		*			
12		*		*			
13		*	*		*		
14		*	*		*		
15		*	*		*		
16		*	*		*		
17	*						
18	*						
19	*			*			
20	*			*	*		
21	*		*		*		
22	*		*		*		
23	*		*	*	*		
24	*		*	*	*		
25	*	*					
26	*	*	*		*		
27	*	*	*	*	*		
28	*	*	*	*	*		
29	*	*	*	*	*		
30	*	*	*	*	*		
31	*	*	*	*	*	NOTICE: Only set the Modbus Address in the OFF state.	
32	*	*	*	*	*		

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.

Technical data			
Input		Output – MODBUS	
Input signal type	Current	Number of devices (max.)	32
Resolution [bit]	15 bits	Connector	RJ-45
Measured variable	Current	Bus length (max.)	1200 m
Input signal (current)	DC 0 ... 140 A	Terminating resistor	150 Ω (can be activated via DIP switch 1)
Communication		Measurement error	
Communication	Modbus RTU	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)
Interface	RS-485	Temperature coefficient	≤ 0.05 %/K (-20 ... 60 °C); ≤ 0.1 %/K (60 ... 70 °C)
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		
Baud rate	19.2 kBd		
Power supply			
Nominal supply voltage U _S	DC 24 V		
Current consumption at nominal supply voltage	≤ 8 mA		



Safety and protection		
Protection type	IP20	
Connection data		
Feedthrough for measurement conductor	Ø 15 mm	
Connector	RJ-45	
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 8.0	EC002475	
ETIM 7.0	EC002475	
PU (SPU)	1 pcs	
Packaging type	Box	
Country of origin	DE	
Customs tariff number	85437090300	



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

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 789-621





Documentation			
Bid Text			
789-621	18.07.2019	xml 4.99 KB	↓
789-621	18.07.2019	docx 16.03 KB	↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 789-621 ↓	EPLAN Data Portal 789-621 ↓
	WSCAD Universe 789-621 ↓
	ZUKEN Portal 789-621 ↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 Cables and connectors
1.1.1.1 Connector plug



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

1.1.2 Interface module
1.1.2.1 Interface module



Item No.: 289-965
Interface module; 2xRJ-45; PCB terminal blocks, double-row; in mounting carrier



Item No.: 289-966
Interface module; 2xRJ-45; PCB terminal blocks, double-row; in mounting carrier; with shield connection