

Data sheet | Item number: 789-622

Current signal conditioner; Current input signal: 50 AAC; Modbus RTU;

Supply voltage: 24 VDC; Module width: 35 mm

www.wago.com/789-622



789-622

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

Adress	DIP Switch 2	DIP Switch 3	DIP Switch 4	DIP Switch 5	DIP Switch 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 AC currents and is mounted on DIN-35 rail.

Data

Technical data

Input

Input signal type	Current
Input signal (current)	AC 0 ... 50 A AC 0 ... 50 A
Resolution [bit]	14 bits

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.



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

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

Measurement Error

Transmission error (typ.)	1 % (typ.); 3 % (max.) of upper-range value (at room temperature)
Temperature coefficient	≤ 0.01 %/K

Supply

Nominal supply voltage U_S	DC 24 V
Supply voltage range	12 ... 34 VDC
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

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

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

Mechanical Data

Mounting type	DIN-35 rail
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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
GTIN	4050821374138
Customs tariff number	85437090300

Environmental Product Compliance


CAS-No.	693-98-1 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole

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

	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I
SCIP notification number (Austria)	bb694884-3b75-466d-b25c-d1508336f8c8
SCIP notification number (Belgium)	9608bd87-8285-473d-9ae7-f40452779e22
SCIP notification number (Bulgaria)	bff72e14-4f7f-464d-aeb1-9ae6795be378
SCIP notification number (Czech Republic)	2e7080d2-3286-4942-b074-2c2d040cfab3
SCIP notification number (Denmark)	a2a89f30-d51c-4f3f-a9cc-67a8c17949c6
SCIP notification number (Finland)	c6281fb7-616a-4a12-8929-e5946ee21b69
SCIP notification number (France)	e227b69f-504c-4880-bed4-bfc29c2e0b53
SCIP notification number (Germany)	ed27cc37-e5e7-4e8f-886b-da3f5392e4d6
SCIP notification number (Hungary)	b7d62313-a72e-467e-9fd4-b28c10aefbfc
SCIP notification number (Italy)	69fd3825-e613-4b1f-9375-abd05d68b9ce
SCIP notification number (Netherlands)	4bcea46f-9970-43bc-b839-af586e763f40
SCIP notification number (Poland)	effb8a89-418f-419f-ae7d-852495d291b2
SCIP notification number (Romania)	976b857e-0e78-4294-a00e-1d66170150f9
SCIP notification number (Sweden)	02f0ffe5-8218-4b40-a4df-b24cfa363753

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087 /19

Optional accessories

Cables and pluggable connectors

Connector plug



Item no.: 750-975

ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

www.wago.com/750-975

Interface module

Interface module

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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

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Downloads

Documentation

Bid Text

789-622 docx - Datei	2019 Jul 18	docx 16.2 kB	Download
789-622 X81 - Datei	2019 Jul 18	xml 4.8 kB	Download

Instruction Leaflet

Stromsensor, AC 0...50A		pdf 1.7 MB	Download
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Additional Information

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

CAE data

EPLAN Data Portal 789-622		URL	Download
ZUKEN Portal 789-622		URL	Download
WSCAD Universe 789-622		URL	Download

CAD data

2D/3D Models 789-622		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 789-622

URL

Download

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Installation Notes

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