

# 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](http://www.wago.com/789-622)



RoHS  Compliant

BOMcheck.net

789-622

Pin	Function
1	Lib
2	r.c.
3	r.c.
4	A (Data+)
5	B (Data-)
6	r.c.
7	r.c.
8	GND

  

Modbus® Function	Read Holding Registers (003)
Address of Measured Value	0x0004
Data Type Measurement	Integer

  

Error Numbers:	Description:
01	Illegal Function
02	Illegal Data
101	Overflow (Current > +63 A)
102	Underflow (Current < -3 A)

  

DIP Switch Adjustability  ON

Address	DIP Switch 2	DIP Switch 3	DIP Switch 4	DIP Switch 5	DIP Switch 6	Terminating Resistor	DIP Switch 1
1						150 Ohm	<input checked="" type="checkbox"/>
2							
3							
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32							

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

## Item description

### Short description:

This intelligent current sensor monitors AC currents and is mounted on DIN-35 rail.

## Data

### Technical Data

### Input

Input signal type

Electricity

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

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We are always happy to take your call at +49 (571) 887-44222.



Input signal, current	AC 0 ... 50 A;
Resolution [bit]	14 Bit

### Communication

Communication	Modbus RTU
Interface	RS-485
Transmission channels	Half duplex; 8-bit data; 1 stop bit
Number of participants (max.)	32
Max. length of bus line	≤ 1200 m
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.); Max. 3 % of upper-range value (at room temperature)
Temperature coefficient	≤ 0.01 %/K

### Power supply

Nominal supply voltage $U_S$	DC 24 V
Supply voltage range	12 ... 34 VDC
Current consumption at supply voltage	≤ 8 mA

### Safety and protection:

Protection class	IP20
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### Connection data

Feedthrough for measurement conductor	15 mm Ø
Connector	RJ-45

### Geometrical Data

Width	35 mm / 1.378 inch
Height from upper-edge of DIN-35 rail	55 mm / 2.165 inch
Depth	90 mm / 3.543 inch

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

## Mechanical data

Type of mounting	DIN-35 rail
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## Material Data

Weight	77.2 g
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## Environmental Requirements

Surrounding air (operating) temperature	-20 ... 70 °C
Surrounding air (storage) temperature	-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 Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4050821374138
Customs Tariff No.	85437090300

## Counterpart

## Compatible products

### transfer module



**Item no.: 289-965**

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

[www.wago.com/289-965](http://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](http://www.wago.com/289-966)

### wiring and connectors

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

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Item no.: 750-975

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

[www.wago.com/750-975](http://www.wago.com/750-975)

## Downloads

### Documentation

#### Bid Text

789-622 GAEB docx - Datei	Jul 18, 2019	docx 16.2 kB	Download
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789-622 GAEB X81 - Datei	Jul 18, 2019	xml 4.8 kB	Download
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#### Instruction Leaflet

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

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 789-622		URL	Download
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### CAE data

EPLAN Data Portal 789-622		URL	Download
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WSCAD Universe 789-622		URL	Download
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## Installation Notes

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