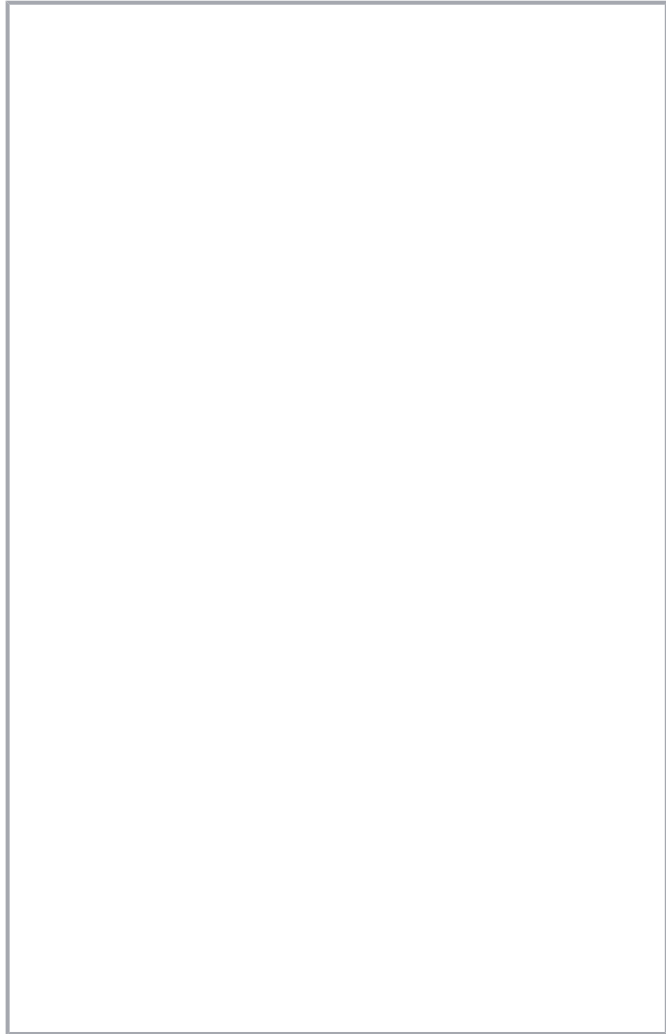
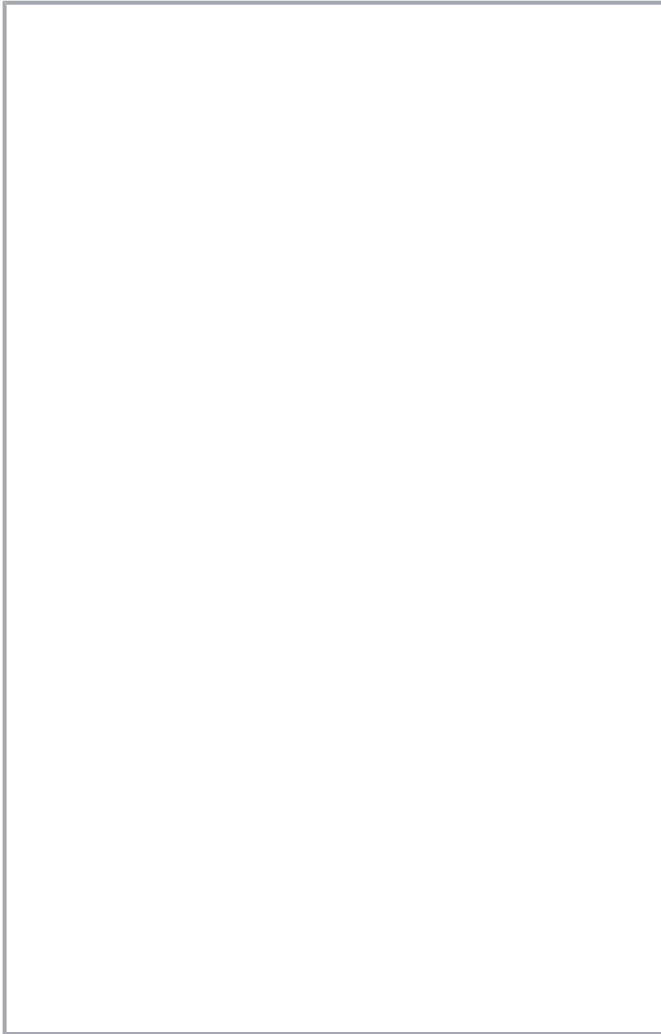


Data sheet | Item number: 789-620

Current signal conditioner; Current input signal: 80 ADC; Modbus RTU;

Supply voltage: 24 VDC

www.wago.com/789-620



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.

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



Data

Technical data

Input

Input signal type	Current
Resolution [bit]	15 bits
Measured variable	Current
Input signal (current)	DC 0 ... 80 A

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
Parity	Even
Terminating resistor	150 Ω (can be activated via DIP switch 1)
Bus length (max.)	≤ 1200 m
Baud rate	19.2 kBd

Measurement error

Transmission error (typ.)	≤ 0.5 % of upper-range value (at room temperature)
Temperature coefficient	≤ 0.01 %/K

Power supply

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

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



Safety and protection

Protection type	IP20
-----------------	------

Connection data

Feedthrough for measurement conductor	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	80.2 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

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



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

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Standards and specifications

Standards/specifications	DIN EN 50178
--------------------------	--------------

Commercial data

eCl@ss 9.0
ETIM 8.0
ETIM 7.0
Customs tariff number

Technical data

Input

Input signal type	Current
Input signal (current)	DC 0 ... 80 A

Power supply

Supply voltage range	12 ... 34 VDC
----------------------	---------------

Mechanical Data

Mounting type	DIN-35 rail
---------------	-------------

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC	TP TC 020/2011	EAC RU C-

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

Brjansker Zertifizierungsstelle

DE.AM02.
B.00087
/19**Approvals for marine applications**

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1
	PRS Polski Rejestr Statków	-	TE/2186 /880590/18

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		
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

Downloads**Documentation****Bid Text**

789-620 X81 - Datei	2019 年7月18 日	xml 4.9 kB	Download
789-620 docx - Datei	2019 年7月18 日	docx 16.3 kB	Download

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
---	-------------------------	---------------	----------

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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

Application Notes

Application note, other

Anbindung eines Stromsensors 789-620 an ein Perspecto Bediengerät (a117001)	1.0.0	zip	Download
Dieses Anleitung beschreibt eine mögliche Anbindung der Stromsensoren 789-620 an ein Perspecto Bediengerät über eine serielle Verbindung unter Verwendung des Modbus-Protokolls.	2011 年8月22 日	1.6 MB	

Application Note CoDeSys 2.3

Anbindung eines Stromsensors 789-620 an das WAGO-I/O-SYSTEM (a117000)	1.0.0	zip	Download
Dieses Anleitung beschreibt eine mögliche Anbindung der Stromsensoren 789-620 an das WAGO-I/O-System über eine serielle Verbindung unter Verwendung des Modbus-Protokolls.	2011 年8月22 日	245.1 kB	

CAD/CAE-Data

CAD data

2D/3D Models 789-620	URL	Download
----------------------	-----	----------

CAE data

EPLAN Data Portal 789-620	URL	Download
---------------------------	-----	----------

WSCAD Universe 789-620	URL	Download
------------------------	-----	----------

ZUKEN Portal 789-620	URL	Download
----------------------	-----	----------

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 789-620	URL	Download
Current signal conditioner; Current input signal: 80 ADC; Modbus RTU; Supply voltage: 24 VDC		

Installation Notes

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