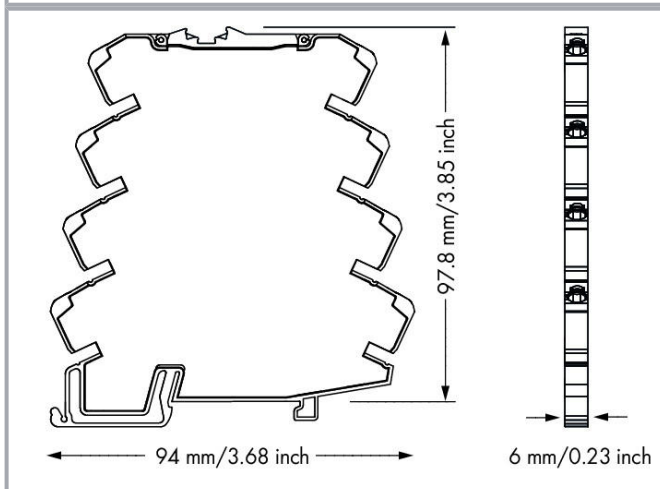
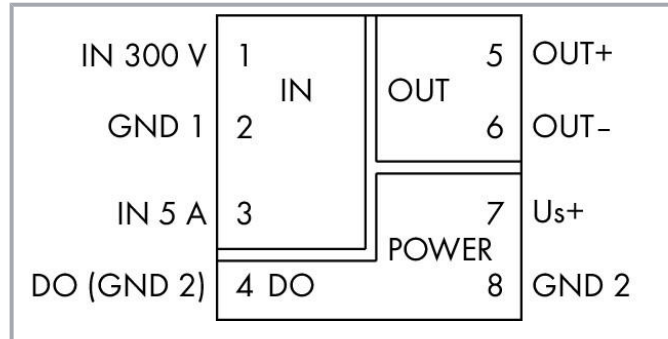
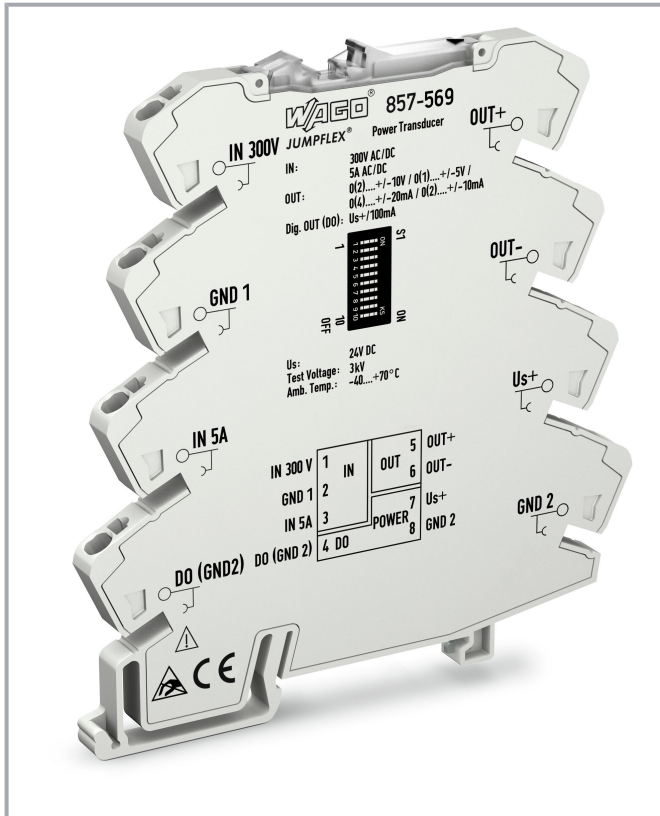


Data sheet | Item number: 857-569

Power signal conditioner; Current and voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width



www.wago.com/857-569



857-569
DIP Switch Adjustability

• ON Default

DIP Switch S1		3	4	Filter
1	2	Measured Variable	Not assigned	Off
•	•	Effective power		• Active
•	•	Apparent power		
•	•	Reactive power		
•	•	Power factor		

DIP Switch S1		5 <th>6</th> <th>7</th> <th>Output Signal Range</th>	6	7	Output Signal Range
•	•	•	•	•	0...20 mA
•	•	•	•	•	4...20 mA
•	•	•	•	•	0...10 V
•	•	•	•	•	2...10 V
•	•	•	•	•	0...10 mA
•	•	•	•	•	2...10 mA
•	•	•	•	•	0...5 V
•	•	•	•	•	1...5 V

DIP Switch S1		8	9	Measurement Range Underflow	Measurement Range Overflow	10	Digit Output DO/Signaling
•	•	•	•	Lower limit of measurement range -5.9%	Upper limit of measurement range +2.5%	•	DO V ₊ switching
•	•	•	•	Lower limit of measurement range	Upper limit of measurement range +2.5%	•	DO GND switching
•	•	•	•	Lower limit of measurement range	Upper limit of measurement range		
•	•	•	•	Lower limit of measurement range	Upper limit of measurement range		

*acc. to NAMUR NE 43

Filter: The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g. during trailing edge flows).

Digital Output DO/Signaling: The digital output (DO) signals error messages and can be configured as follows: 24 V → 0 VDC → -24 V.

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

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Item description

Short description:

This power measurement module measures both AC/DC voltages and currents, converting the input signal into a standard analog signal at the output.

Measured value processing can be switched between RMS value or arithmetic mean value and between effective, apparent or reactive power, and phase angle.

Features:

- Two isolated measurement inputs for both AC/DC voltages and currents
- RMS measurement or arithmetic mean value
- A digital signal output reacts to configured measurement range limits (on/off switching delay and threshold value switch function can be configured with up to two threshold values).
- Switchable filter function
- Safe 3-way isolation with 3 kV test voltage per DIN EN 61010-1

Data

Technical data

Configuration

Configuration options	DIP switch WAGO Interface Configuration Software WAGO Interface Configuration App
	DIP switch WAGO Interface Configuration Software WAGO Interface Configuration App

Input

Input signal type	Voltage Current
Input signal (voltage)	AC/DC 300 V (IN 1)
Input signal (current)	AC/DC 0 ... 5 A (IN 2)
Frequency range	15 ... 70 Hz (AC)
Input resistance (current input)	≤ 10 mΩ
Input resistance (voltage input)	≥ 300 kΩ
Input current (max.)	10 A AC/DC (IN 2; permanent)
Input voltage (max.)	600 V (IN 1; permanent)
Response threshold	300 mV (IN 1); 10 mA (IN 2)
Resolution (voltage)	30 mV (IN 1)

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Resolution (current)	1 mA (IN 2)
----------------------	-------------

Output – analog

Output signal type	Current Voltage
Output signal (voltage)	0 ... 5 V; 1 ... 5 V; 0 ... 10 V; 2 ... 10 V (can be inverted (also bipolar))
Output signal (current)	0 ... 10 mA; 2 ... 10 mA; 0 ... 20 mA; 4 ... 20 mA (can be inverted (also bipolar))
Load impedance (voltage output)	$\geq 1 \text{ k}\Omega$
Load impedance (current output)	$\leq 600 \Omega$

Output – digital

Switching voltage (DO) (max.)	Supply voltage (applied)
Continuous current (DO) (max.)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 or 2 (adjustable)
Configurable rise/fall delay time (DO)	0 ... 60 s (via software)

Signal processing

Measurement method	RMS measurement; Arithmetic mean value
Limit frequency	2 kHz
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	100 ms

Measurement error

Transmission error (max.)	$\leq 0.5 \%$ (of the full scale value)
Temperature coefficient	$\leq 0.01 \%/K$

Supply

Power supply type	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	$\pm 30 \%$
Power consumption at nominal supply voltage	$\leq 46 \text{ mA} (+ I_{DO})$

Safety and protection

Measurement category per EN/UL 61010-2-030	CAT II (input)
Note on insulation parameters	Danger: Configuration via the service interface must only be

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



performed with a voltage-free measurement input!
 Danger: Configuration via the service interface must only be
 performed with a voltage-free measurement input!
 The digital output (DO) is at the potential of the supply

Protection type	IP20
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Test voltage

Test voltage (input/analog output/supply/service interface)	2.5 kVAC; 50 ... 60 Hz; 1 min
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Insulation parameters per EN/UL 61010-1

Line-to-neutral conductor voltage (AC) max.	150 V
Overtoltage category	II
Pollution degree	2
Insulation type (input/analog output/supply/service interface)	Reinforced insulation

Insulation parameters per EN 61010-1

Line-to-neutral conductor voltage (AC) max.	300 V
Overtoltage category	II
Pollution degree	2
Insulation type (input/analog output/supply/service interface)	Double insulation (impedance and basic insulation) Requirement: The GND 1 input is dangerous when active and the measurement is conducted as a low-side measurement!

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Physical data

Width	6 mm / 0.236 inch
Height	94 mm / 3.701 inch
Depth from upper edge of DIN-rail	97.8 mm / 3.85 inch

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0.015 MJ
Weight	39.2 g

Environmental requirements

Surrounding air temperature (operation)	-40 ... 70 °C (at nominal current)
Surrounding air temperature (storage)	-40 ... 85 °C
Temperature range of the connecting cable according to EN 61010-2-201	$\geq (T_{\text{surrounding air}} + 10 \text{ K})$
Temperature range of connecting cable per UL 61010-2-201 (min.)	90 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications


Conformity marking	CE
EMC immunity to interference	EN 61000-6-2; EN 61326-2-3; EN 50121-3-2
EMC emission of interference	EN 61000-6-3; EN 61326-2-3; EN 50121-3-2
Standards/Specifications	EN 61010-1 EN 61373

Commercial data

PU (SPU)	1 Each
Packaging type	bag
Country of origin	DE
GTIN	4055143501026
Customs tariff number	85437090300

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

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

Optional accessories

Cables and pluggable connectors

Communication cable



Item no.: 750-923
Configuration cable; USB connector; Length: 2.5 m

www.wago.com/750-923



Item no.: 750-923/000-001
Configuration cable; USB connector; Length: 5 m

www.wago.com/750-923/000-001

Terminal blocks

Through terminal block



Item no.: 857-979
Supply and through module

www.wago.com/857-979

Jumpers

Jumper



Item no.: 859-408
Jumper; for jumper slot; 8-way; insulated; light gray

www.wago.com/859-408



Item no.: 281-482
Jumper; insulated; gray

www.wago.com/281-482



Item no.: 859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red

www.wago.com/859-404/000-005



Item no.: 859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue

www.wago.com/859-404/000-006



Item no.: 859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red

www.wago.com/859-405/000-005



Item no.: 859-405/000-029
Jumper; for jumper slot; 5-way; insulated; yellow

www.wago.com/859-405/000-029



Item no.: 859-405
Jumper; for jumper slot; 5-way; insulated; light gray















www.wago.com/859-405
















Item no.: 859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow

www.wago.com/859-404/000-029

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

	Item no.: 859-406 Jumper; for jumper slot; 6-way; insulated; light gray	www.wago.com/859-406
	Item no.: 859-405/000-006 Jumper; for jumper slot; 5-way; insulated; blue	www.wago.com/859-405/000-006
	Item no.: 859-406/000-005 Jumper; for jumper slot; 6-way; insulated; red	www.wago.com/859-406/000-005
	Item no.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated; yellow	www.wago.com/859-409/000-029
	Item no.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red	www.wago.com/859-410/000-005
	Item no.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow	www.wago.com/859-410/000-029
	Item no.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray	www.wago.com/859-410
	Item no.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	www.wago.com/859-410/000-006
	Item no.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	www.wago.com/859-403/000-005
	Item no.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow	www.wago.com/859-402/000-029
	Item no.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow	www.wago.com/859-403/000-029
	Item no.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	www.wago.com/859-403/000-006
	Item no.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red	www.wago.com/859-408/000-005
	Item no.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow	www.wago.com/859-408/000-029

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

	Item no.: 859-409 Jumper; for jumper slot; 9-way; insulated; light gray	www.wago.com/859-409
	Item no.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue	www.wago.com/859-408/000-006
	Item no.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	www.wago.com/859-403
	Item no.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red	www.wago.com/859-409/000-005
	Item no.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray	www.wago.com/859-404
	Item no.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated; blue	www.wago.com/859-409/000-006
	Item no.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	www.wago.com/859-402/000-006
	Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	www.wago.com/859-402
	Item no.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red	www.wago.com/859-402/000-005
	Item no.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue	www.wago.com/859-406/000-006
	Item no.: 859-406/000-029 Jumper; for jumper slot; 6-way; insulated; signal yellow	www.wago.com/859-406/000-029
	Item no.: 859-407/000-006 Jumper; for jumper slot; 7-way; insulated; blue	www.wago.com/859-407/000-006
	Item no.: 859-407/000-005 Jumper; for jumper slot; 7-way; insulated; red	www.wago.com/859-407/000-005
	Item no.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow	www.wago.com/859-407/000-029

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



Item no.: 859-407

Jumper; for jumper slot; 7-way; insulated; light gray

www.wago.com/859-407

Tool

Operating tool



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Interface module

Interface adapter



Item no.: 857-980

Interface adapter; 16-pole; analog

www.wago.com/857-980

Marking accessories

Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110

Marker



Item no.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-115



Item no.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501



Item no.: 793-502

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-502



Item no.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-503



Item no.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-504



Item no.: 793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-505



Item no.: 793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-506



Item no.: 793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/793-566



Item no.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/793-5501

Power supplies

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Power supply

Item no.: 787-2852

Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current; -

www.wago.com/787-2852

Downloads

Documentation

Bid Text

857-569 pdf - Datei	2019. 7. 18.	pdf 80.5 kB	Download
857-569 X81 - Datei	2019. 7. 18.	xml 8.1 kB	Download
857-569 docx - Datei	2019. 7. 18.	docx 20.8 kB	Download

Instruction Leaflet

Signal conditioner; power; configurable; with digital output	V 2.0.0 2020. 9. 29.	pdf 2.5 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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Engineering-Software

Software for Interface-Products

WAGO Interface Configuration Software G2 FULL The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	1.0.7.9 2021. 4. 8.	exe 114.0 MB	Download
WAGO Interface Configuration Software G2 SMALL The full setup only includes the WAGO Interface Configuration Software G2.	1.0.7.9 2021. 4. 8.	exe 30.0 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 857-569	URL	Download
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CAE data

WSCAD Universe 857-569	URL	Download
ZUKEN Portal 857-569	URL	Download
EPLAN Data Portal 857-569	URL	Download

Environmental Product Compliance

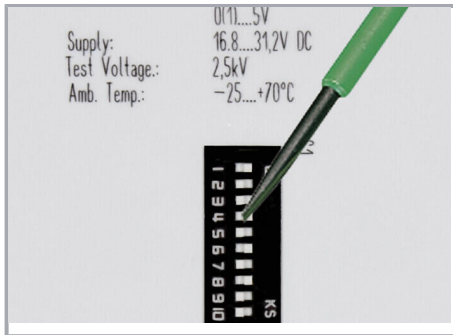
Compliance Search

Environmental Product Compliance 857-569	URL	Download
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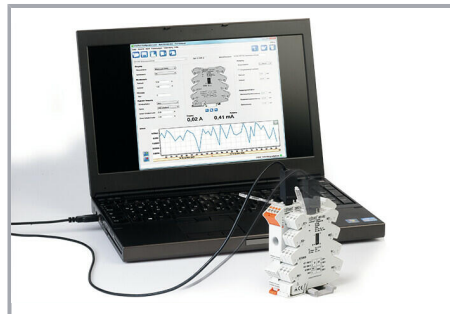
Power signal conditioner; Current and voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

Installation Notes

Configuration



Configuration via DIP switch



Configuration via WAGO Interface Configuration Software



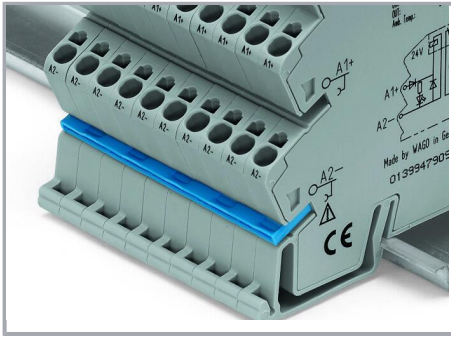
Configuration via WAGO Interface Configuration App

Commoning

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

Data sheet | Item number: 857-569

www.wago.com/857-569



Commoning, not discrete wiring – Same outline allows use of a single in-line, push-in jumper.

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