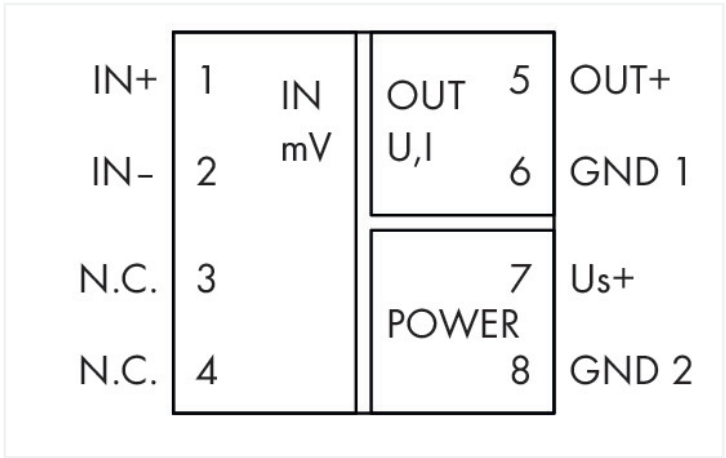
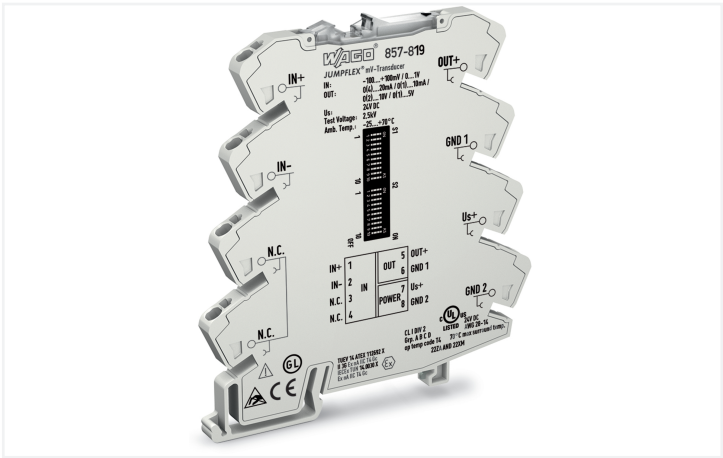


Data Sheet | Item Number: 857-819

Voltage signal conditioner; Bipolar voltage input signal; Current and voltage output signal; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

<https://www.wago.com/857-819>



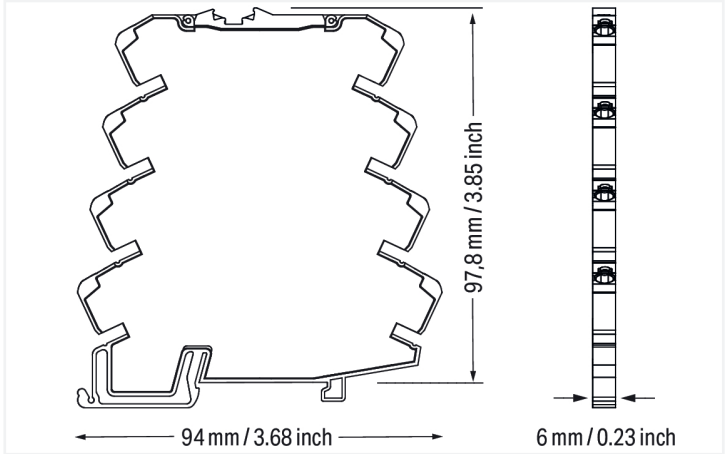
857-819
DIP Switch Adjustability

Input	Output	Input	Output
Short Value	Short Value	Short Value	Short Value
DIP-S1	DIP-S2	DIP-S3	DIP-S4
1	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	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

DIP Switch 10

Output Signal	Measurement Range Underflow	Measurement Range Overflow
4 ... 20mA	0mA / 3.33mA / 6.66mA / 10mA / 13.33mA / 16.66mA / 20mA	20mA / 33.33mA / 66.66mA / 100mA / 133.33mA / 166.66mA / 200mA
0 ... 10mA	0mA / 3.33mA / 6.66mA / 10mA / 13.33mA / 16.66mA / 20mA	10mA / 33.33mA / 66.66mA / 100mA / 133.33mA / 166.66mA / 200mA
2 ... 10mA	2mA / 3.33mA / 6.66mA / 10mA / 13.33mA / 16.66mA / 20mA	10mA / 33.33mA / 66.66mA / 100mA / 133.33mA / 166.66mA / 200mA
0 ... 10V	0V / 3.33V / 6.66V / 10V / 13.33V / 16.66V / 20V	10V / 33.33V / 66.66V / 100V / 133.33V / 166.66V / 200V
2 ... 10V	2V / 3.33V / 6.66V / 10V / 13.33V / 16.66V / 20V	10V / 33.33V / 66.66V / 100V / 133.33V / 166.66V / 200V
0 ... 5V	0V / 3.33V / 6.66V / 10V / 13.33V / 16.66V / 20V	10V / 33.33V / 66.66V / 100V / 133.33V / 166.66V / 200V
1 ... 5V	1V / 3.33V / 6.66V / 10V / 13.33V / 16.66V / 20V	10V / 33.33V / 66.66V / 100V / 133.33V / 166.66V / 200V

DIP Switch 10 (Direct connected)



Short description:

WAGO's voltage signal conditioner converts millivolt signals (at the input) into a standard analog signal at the output.

Features:

- PC configuration interface
- Calibrated measurement range switching
- Clipping capability for analog signal limitation to output end values
- 3-way electrical isolation with 2.5 kV test voltage

Notes	
Note	Additional setting options via the WAGO Interface Configuration Software

Technical data	
Configuration	
Configuration options	DIP switch WAGO Interface Configuration Software
Input	
Input signal type	Voltage



Input	
Input signal (voltage)	±100 mV 0 ... 200 mV 0 ... 300 mV 0 ... 400 mV 0 ... 500 mV 0 ... 600 mV 0 ... 700 mV 0 ... 800 mV 0 ... 900 mV 0 ... 1 V
Input resistance (voltage input)	≥ 1 MΩ
Input voltage (max.)	±31.2 VDC
Measurement span (min.)	10 mV

Signal processing	
Step response (typ.)	50 ms

Power supply	
Power supply type	24 VDC
Nominal supply voltage U _S	24 VDC
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 40 mA

Safety and protection		
Protection type	IP20	
		Test voltage
		Test voltage (input/output/supply) 2.5 kVAC; 50 Hz; 1 min

Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

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

Mechanical data	
Mounting type	DIN-35 rail

Output (analog)	
Output signal type	Current Voltage
Output signal (voltage)	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V
Output signal (current)	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA
Load impedance (voltage output)	≥ 2 kΩ
Load impedance (current output)	≤ 600 Ω

Measurement error	
Transmission error (typ.)	≤ 0.1 % at full measurement span
Temperature coefficient	≤ 0.01 %/K



Material data	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.363 MJ
Weight	36.3 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °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
EMC emission of interference	EN 61000-6-4
Standards/specifications	DNV

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454665975
Customs tariff number	85437090300

Product classification	
UNSPSC	41113630
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 9.0	EC002653
ETIM 8.0	EC002653
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 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)	49e9c757-c3de-45f5-aa94-fa829ce66621
SCIP notification number (Belgium)	3add6792-d6b4-4a60-b10b-2775d1050079
SCIP notification number (Bulgaria)	a0000eb0-9c45-4d8f-a613-6ba463247146
SCIP notification number (Czech Republic)	845b3bf4-8af5-4eb2-85fe-6b1bffc3a9db
SCIP notification number (Denmark)	fc708c3a-9f06-4678-a073-55db81ddfabb
SCIP notification number (Finland)	0210ffd1-fff4-401b-b2b7-efb00f735dfd



Environmental Product Compliance	
SCIP notification number (France)	a289d34e-7a35-4a49-81d6-c36c8cf5f8a4
SCIP notification number (Germany)	928af8ea-3919-43d6-9131-d135fb0ddd0b
SCIP notification number (Hungary)	9e60857b-8e32-4df9-8f55-10326f32222f
SCIP notification number (Italy)	304a20bf-0ad3-44e3-a7c7-a57f7458854f
SCIP notification number (Netherlands)	e69a77bc-9dc3-4a4d-aaf3-705677644c26
SCIP notification number (Poland)	6361bdca-953e-4872-80fc-01867f4f542f
SCIP notification number (Romania)	d6046b0c-fd20-46ba-b839-4cd262bb8117
SCIP notification number (Sweden)	51812d90-7f3f-4f0b-af26-1ec84c334379

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Approvals for marine applications		
		
Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1

Approvals for hazardous areas		
		
Approval	Standard	Certificate Name
CCC CNEX	CNCA-C23-01	2020312310000210 (Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	-	IECEX TUN14.0030X
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX004X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 857-819	



Documentation				
Manual		Bid Text		
WAGO Current and Voltage Signal Conditioners and Power Measurement Modules		857-819	18.07.2019	xml 5.88 KB
				↓
		857-819	18.07.2019	docx 18.76 KB
				↓
		857-819	18.07.2019	pdf 73.55 KB
				↓

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 140.99 KB	↓
Messumformer und Trennverstärker		pdf 2166.86 KB	↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 857-819	EPLAN Data Portal 857-819
↓	↓
	WSCAD Universe 857-819
	↓
	ZUKEN Portal 857-819
	↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 Cables and connectors
1.1.1.1 Communication cable



[Item No.: 750-923/000-001](#)
Configuration cable; USB connector;
Length: 5 m

1.1.2 Communication
1.1.2.1 Bluetooth



[Item No.: 750-921](#)
Bluetooth® Adapter

1.1.2.2 Communication cable



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

1.1.3 Installation

1.1.3.1 Mounting accessories



Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-197
Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.4 Interface module

1.1.4.1 Interface adapters



Item No.: 857-980
Interface adapter; 16-pole; analog

1.1.5 Jumper

1.1.5.1 Jumper



Item No.: 281-482
Jumper; 2-way; insulated; gray



Item No.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue



Item No.: 859-410
Jumper; for jumper slot; 10-way; insulated; light gray



Item No.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red



Item No.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow



Item No.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue



Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray



Item No.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red



Item No.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow



Item No.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue



Item No.: 859-403
Jumper; for jumper slot; 3-way; insulated; light gray



Item No.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red



Item No.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow



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



Item No.: 859-404
Jumper; for jumper slot; 4-way; insulated; light gray



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



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



Item No.: 859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue



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



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



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



Item No.: 859-406/000-006
Jumper; for jumper slot; 6-way; insulated; blue



Item No.: 859-406
Jumper; for jumper slot; 6-way; insulated; light gray



Item No.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red



1.1.5.1 Jumper



Item No.: 859-406/000-029
Jumper; for jumper slot; 6-way; insulated; yellow



Item No.: 859-407/000-006
Jumper; for jumper slot; 7-way; insulated; blue



Item No.: 859-407
Jumper; for jumper slot; 7-way; insulated; light gray



Item No.: 859-407/000-005
Jumper; for jumper slot; 7-way; insulated; red



Item No.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow



Item No.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue



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



Item No.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red



Item No.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow



Item No.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue



Item No.: 859-409
Jumper; for jumper slot; 9-way; insulated; light gray



Item No.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red



Item No.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

1.1.6 Marking

1.1.6.1 Marker



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



Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.6.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.7 Power supply

1.1.7.1 Power supply



Item No.: 787-2852
Switched-mode power supply; 1-phase;
24 VDC output voltage; 1 A output current

1.1.8 Terminal blocks

1.1.8.1 Supply module



Item No.: 857-979
Supply and through module

1.1.8.2 Through terminal block



Item No.: 857-979
Supply and through module

1.1.9 Tool

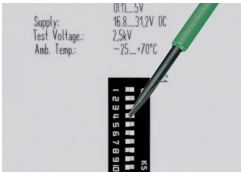
1.1.9.1 Operating tool



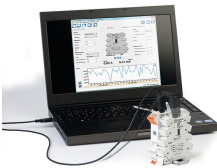
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured

Installation Notes

Configuring

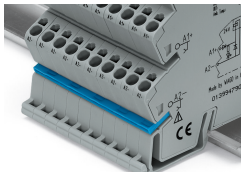


Configuration via DIP switch



Configuration via WAGO Interface Configuration Software

Commoning



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

