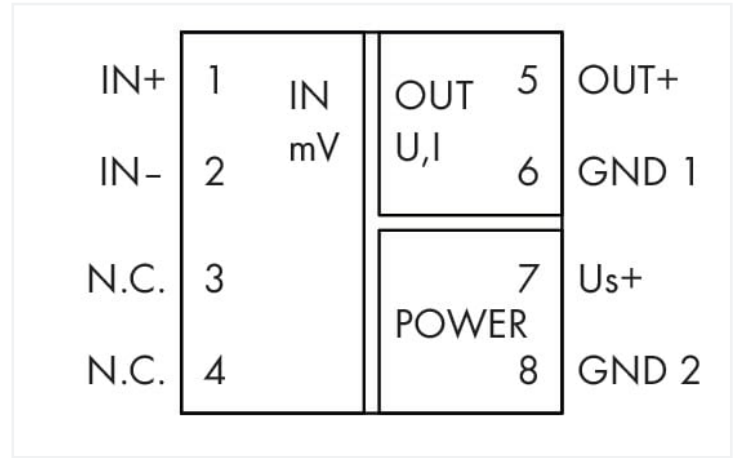
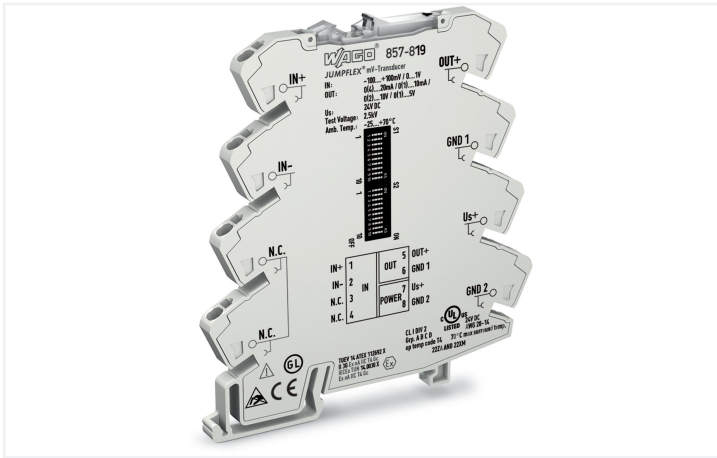


# Data Sheet | Item Number: 857-819

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 mm<sup>2</sup>



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

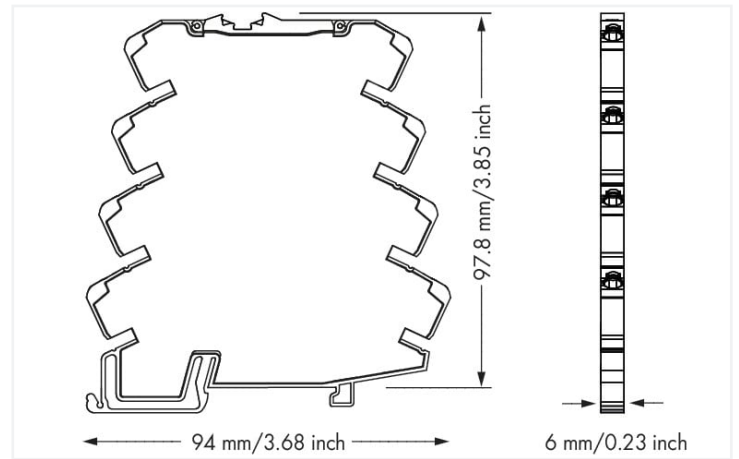


857-819  
DIP Switch Adjustability

Input	Start Value	End Value	Output	Start Value	End Value
DIP S1	0	100	DIP S1	0	100
DIP S2	0	100	DIP S2	0	100
DIP S3	0	100	DIP S3	0	100
DIP S4	0	100	DIP S4	0	100
DIP S5	0	100	DIP S5	0	100
DIP S6	0	100	DIP S6	0	100
DIP S7	0	100	DIP S7	0	100
DIP S8	0	100	DIP S8	0	100
DIP S9	0	100	DIP S9	0	100
DIP S10	0	100	DIP S10	0	100
DIP S11	0	100	DIP S11	0	100
DIP S12	0	100	DIP S12	0	100
DIP S13	0	100	DIP S13	0	100
DIP S14	0	100	DIP S14	0	100
DIP S15	0	100	DIP S15	0	100
DIP S16	0	100	DIP S16	0	100
DIP S17	0	100	DIP S17	0	100
DIP S18	0	100	DIP S18	0	100
DIP S19	0	100	DIP S19	0	100
DIP S20	0	100	DIP S20	0	100
DIP S21	0	100	DIP S21	0	100
DIP S22	0	100	DIP S22	0	100
DIP S23	0	100	DIP S23	0	100
DIP S24	0	100	DIP S24	0	100
DIP S25	0	100	DIP S25	0	100
DIP S26	0	100	DIP S26	0	100
DIP S27	0	100	DIP S27	0	100
DIP S28	0	100	DIP S28	0	100
DIP S29	0	100	DIP S29	0	100
DIP S30	0	100	DIP S30	0	100
DIP S31	0	100	DIP S31	0	100
DIP S32	0	100	DIP S32	0	100
DIP S33	0	100	DIP S33	0	100
DIP S34	0	100	DIP S34	0	100
DIP S35	0	100	DIP S35	0	100
DIP S36	0	100	DIP S36	0	100
DIP S37	0	100	DIP S37	0	100
DIP S38	0	100	DIP S38	0	100
DIP S39	0	100	DIP S39	0	100
DIP S40	0	100	DIP S40	0	100
DIP S41	0	100	DIP S41	0	100
DIP S42	0	100	DIP S42	0	100
DIP S43	0	100	DIP S43	0	100
DIP S44	0	100	DIP S44	0	100
DIP S45	0	100	DIP S45	0	100
DIP S46	0	100	DIP S46	0	100
DIP S47	0	100	DIP S47	0	100
DIP S48	0	100	DIP S48	0	100
DIP S49	0	100	DIP S49	0	100
DIP S50	0	100	DIP S50	0	100

DIP Switch	Output Signal	Measurement Range Underflow	Measurement Range Overflow
1	4 ... 20 mA	0 mA / 3.33 mA / 5 mA / 10 mA / 15 mA / 20 mA / 25 mA / 30 mA / 33.33 mA / 35 mA / 40 mA / 50 mA / 60 mA / 70 mA / 80 mA / 90 mA / 100 mA	100 mA / 200 mA / 300 mA / 400 mA / 500 mA / 600 mA / 700 mA / 800 mA / 900 mA / 1000 mA
2	0 ... 10 mA	0 mA / 2 mA / 4 mA / 6 mA / 8 mA / 10 mA	10 mA / 20 mA / 30 mA / 40 mA / 50 mA / 60 mA / 70 mA / 80 mA / 90 mA / 100 mA
3	2 ... 10 mA	0 mA / 2 mA / 4 mA / 6 mA / 8 mA / 10 mA	10 mA / 20 mA / 30 mA / 40 mA / 50 mA / 60 mA / 70 mA / 80 mA / 90 mA / 100 mA
4	0 ... 10 V	0 V / 2 V / 4 V / 6 V / 8 V / 10 V	10 V / 20 V / 30 V / 40 V / 50 V / 60 V / 70 V / 80 V / 90 V / 100 V
5	2 ... 10 V	0 V / 2 V / 4 V / 6 V / 8 V / 10 V	10 V / 20 V / 30 V / 40 V / 50 V / 60 V / 70 V / 80 V / 90 V / 100 V
6	0 ... 5 V	0 V / 1 V / 2 V / 3 V / 4 V / 5 V	5 V / 10 V / 15 V / 20 V / 25 V / 30 V / 35 V / 40 V / 45 V / 50 V
7	1 ... 5 V	0 V / 1 V / 2 V / 3 V / 4 V / 5 V	5 V / 10 V / 15 V / 20 V / 25 V / 30 V / 35 V / 40 V / 45 V / 50 V



Dimensions in mm

## 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 WAGO Interface Configuration Software or WAGO Interface Configuration App

Technical data	
<b>Configuration</b>	
Configuration options	DIP switch WAGO Interface Configuration Software WAGO Interface Configuration App
<b>Input</b>	
Input signal type	Voltage
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

### Input

Measurement span (min.)	10 mV
-------------------------	-------

### 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

### Signal processing

Step response (typ.)	50 ms
----------------------	-------

### Measurement error

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

### Power supply

Power supply type	24 VDC
Nominal supply voltage $U_s$	DC 24 V
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 40 mA

### Safety and protection

Protection type	IP20
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### Test voltage

Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
------------------------------------	-------------------------

### Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 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
---------------	-------------

### 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)
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 9.0	EC002653
ETIM 8.0	EC002653
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454665975
Customs tariff number	85437090300

### Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
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
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SCIP notification number (Czech Republic)	845b3bf4-8af5-4eb2-85fe-6b1bffc3a9db
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SCIP notification number (Finland)	0210ffd1-fff4-401b-b2b7-efb00f735dfd
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SCIP notification number (Romania)	d6046b0c-fd20-46ba-b839-4cd262bb8117
SCIP notification number (Sweden)	51812d90-7f3f-4f0b-af26-1ec84c334379

Approvals / Certificates

General approvals



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

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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 (Exec 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	↓
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Documentation

Manual

WAGO Current and Voltage Signal Conditioners and Power Measurement Modules	↓
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Bid Text

Item	Date	File Name	Size	Action
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	<a href="#">↓</a>
Messumformer und Trennverstärker		pdf 2166.86 KB	<a href="#">↓</a>

CAD/CAE-Data	
<b>CAD data</b>	<b>CAE data</b>
2D/3D Models 857-819 <a href="#">↓</a>	EPLAN Data Portal 857-819 <a href="#">↓</a>
	WSCAD Universe 857-819 <a href="#">↓</a>
	ZUKEN Portal 857-819 <a href="#">↓</a>

## 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



**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

1.1.5.1 Jumper



**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

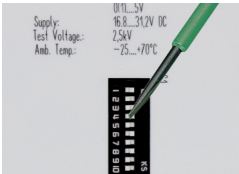


Item No.: 210-720

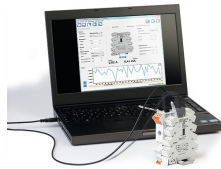
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes

### Configuring



Configuration via DIP switch

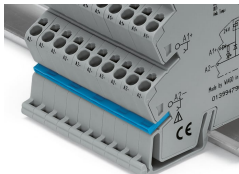


Configuration via WAGO Interface Configuration Software



Configuration via WAGO Interface Configuration App

### Commoning



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