Features

- 1-channel signal conditioner
- 24 V DC supply
- Input bipolar current and voltage sources
- · Output bipolar current and voltage sources
- Accuracy 0.1 %
- · Configurable via DIP switches and potentiometer
- · Connection via screw terminals

Function

This signal conditioner provides the galvanic isolation between field circuits and control circuits.

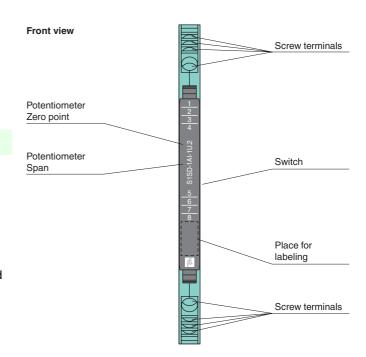
The device has an input for bipolar current and voltage sources.

At the output the signals are available as bipolar current and voltage sources.

The device is easily configured by the use of DIP switches and potentiometers.

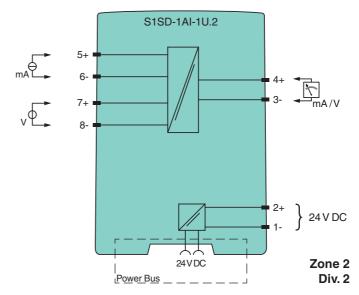
The device can be powered via terminals or Power Bus.

Assembly



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Connection



Analog input

0.6 W 0.8 W

16.8 ... 31.2 V DC

linearity range: unipolar -1 ... 110 % bipolar -110 ... 110 %

terminals 5+, 6-

terminals 7+, 8-

terminals 3-, 4+

≤ 0.1 % of full-scale value

< 100 ppm/K of full-scale value

 \leq 10 mV $_{eff}$

 \leq 25 Ω

 $> 1 \text{ M}\Omega$

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Power Bus or terminals 1-, 2+

 $0/4 \dots 20 \text{ mA}$, $0/2 \dots 10 \text{ mA}$, $\pm 10 \text{ mA}$, $\pm 20 \text{ mA}$, max. 50 mA

0/1 ... 5 V, 0/2 ... 10 V, $\pm 5 V$, $\pm 10 V$, max. 30 V

 $0/1\,...\,5\,V$, $0/2\,...\,10\,V$, $\pm\,5\,V,\,\pm\,10\,V$, load $\geq\,2\,k\Omega$

0/4 ... 20 mA, \pm 10 mA, \pm 20 mA, load \leq 600 Ω

General specifications

Signal type Supply Connection

Rated voltage

Input

Input I

Input II Connection

Output Connection

Ripple

Deviation

Power dissipation

Power consumption

Transmission range

Connection

Input signal

Input signal

Input resistance

Input resistance

Analog voltage output

Analog current output

Transfer characteristics

Influence of ambient temperature

Optional accessories

power feed module S1SD-2PF Power Bus POWERBUS-SETL5.*** Power Bus POWERBUS-SETH5.*** cover for DIN mounting rail POWERBUS-COV.250 end cap POWERBUS-CAP

Configuration

Switch settings

Input S1							Output S2					
1	2	3	4	5	6		1	2	3	4	5	6
ON						± 10 V	ON	ON		ON		
						0 V 10 V	ON	ON				
		ON				2 V 10 V	ON	ON			ON	
ON	ON					± 5 V	ON	ON	ON	ON		
	ON					0 V 5 V	ON	ON	ON			
	ON	ON				1 V 5 V	ON	ON	ON		ON	
ON						± 20 mA				ON		
						0 mA 20 mA						
		ON				4 mA 20 mA					ON	
ON	ON					± 10 mA			ON	ON		
	ON					0 mA 10 mA			ON			
	ON	ON				2 mA 10 mA			ON		ON	
					Filter 8 kHz							
					Filter 100 Hz						ON	
ON					Zero potentiometer active							
ON						Span potentiometer active						

Factory settings: all switches in position OFF