

SP-02 current signal isolator without auxiliary power

- ✓ Single circuit or dual circuit version in 12.5 mm wide casing
- ✓ Accuracy 0.16%
- ✓ Casing can be fitted on a standard adapter (TS35)

Applications and functions

The SP-02 signal isolator provides galvanic separation of an input signal (0/4...20 mA) and converts it, through a separation system into an output signal (0/4...20 mA), with a two-wire power supply in the input signal loop.

The device is typically used to provide galvanic separation between the measurement circuits installed on an object, and the main section. This enables the effect of object-related interference in the monitoring, control and recording systems of automatic devices to be largely eliminated.



Input data

Output data

Output signal0/4...20 mALoad resistance R_0 $0...500 \Omega$

Galvanic separation transformer-based **Strength test parameters** 1.5 kV, 50 Hz, 1 min

Dvnamic characteristics

Transmission band 5 Hz (3 dB)

Conversion errors

When converting a 0...20 mA signal to 0...20 mA in the range below 1% of signal, the error increases to $\pm 0.5\%$.

Effect of temperature fluctuations $0.1\% / 10^{\circ}$ C Effect of load resistance fluctuations $0.1\% / 100 \Omega$

Conditions of normal use

Ambient temperature 5...60°C Relative humidity 30...80%

Casing

Type ME 12.5 (PHOENIX)

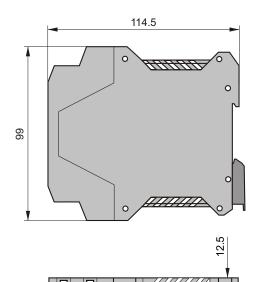
Ingress protection rating IP 20 Weight 0.1 kg

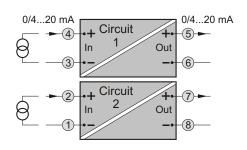
Ordering procedure

Standard version: SP-02 / Special version: SP-02 / 0...10 V / ____

Number of circuits (1 or 2)







Electrical diagram