

## mV TRANSMITTER

Type: AISB

### FEATURES

- mV to standard Current/Voltage conversion
- Galvanic separation > 4 kV
- 4 programmable input ranges
- 8 programmable output ranges
- Excellent linearity
- Small outline

### Description:

The mV transmitter is designed to convert low level noise sensitive signals into high level signals and improve the noise immunity by adding a galvanic separation.

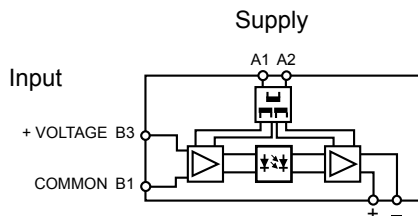
AISB is build with a linearized optic transmission for high accuracy. The mV transmitter is a version of the isolation amplifier.

### Application:

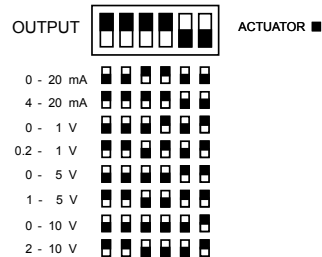
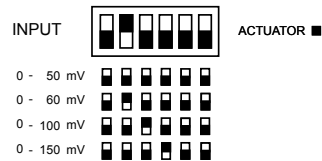
The mV transmitter is designed for the transmission of signals from distant sensors to the control room or for interface between sensor and PC or PLC. Sensors can be of any kind like: Shunt, measuring bridges or used in weight cells or in temperature units.

### CONNECTION DIAGRAM

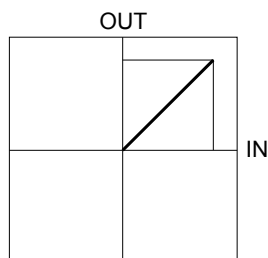
Rail mounting



### PROGRAMMABLE FEATURES

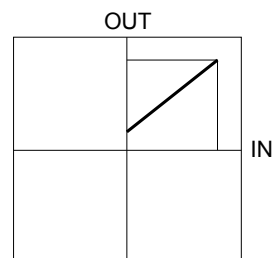


### OUTPUT CHARACTERISTICS



Input: 0 - 50 mV, 0 - 60 mV,  
0 - 100 mV, 0 - 150 mV

Output: 0 - 20 mA, 0 - 1 V,  
0 - 5 V, 0 - 10 V



Input: 0 - 50 mV, 0 - 60 mV,  
0 - 100 mV, 0 - 150 mV

Output: 4 - 20 mA, 0.2 - 1 V,  
1 - 5 V, 2 - 10 V

**SPECIFICATIONS**

**INPUT**

Programmable with  
dipswitch



Range

0 - 50 mV	Max. input	± 20 V
0 - 60 mV	Max. input	± 20 V
0 - 100 mV	Max. input	± 20 V
0 - 150 mV	Max. input	± 20 V

Adjustable type "A"  
Offset potmeter.  
Gain potmeter.

± 100 % off full scale.  
10 - 110 % off full scale.

Input resistance  
Voltage  
Current

Approx. 28 kΩ  
10 Ω

**PERFORMANCE PARAMETERS**

**TIMING**

Response time < 100 msec.

**ELECTRICAL**

Precision Class 0.5 according to DIN / EN60688  
Linearity < 0,2 %  
Ripple < 0.5 % pp  
Temp. dependence ± 0.05 % / % °C  
Supply dependence ± 0.01 % / % ΔU

**OUTPUT**

Programmable with  
dipswitch



Range

Range	Load
0 - 20 mA	Max. Ω 500
4 - 20 mA	Max. Ω 500
0 - 1 V	Min. Ω 100
0.2 - 1 V	Min. Ω 100
0 - 5 V	Min. Ω 250
1 - 5 V	Min. Ω 250
0 - 10 V	Min. Ω 1000
2 - 10 V	Min. Ω 1000

The output amplifier is protected against open and short-circuit.

**SUPPLY**

AC and DC 18-360 VDC and 20-264 VAC  
with isolated switchmode supply

AC supply range with transformer  
24 V (From 20 to 28 V)  
110 V (From 99 to 140 V)  
230 V (From 198 to 264 V)  
400 V (From 342 to 484 V)

Frequency range 45 to 440 Hz (transformer)  
Power consumption 2.5 VA, 1.1 W

**GENERAL**

Temperature range - 25 °C to + 55 °C  
Humidity Up to 90 % RH non-condensing  
Dielectric test voltage  
Between input and output 3000 VAC  
Between input and supply 4000 VAC  
Between supply and output 4000 VAC  
Weight 0.12 kg



EMC directive 89/336: International Standards  
EN50081 - Emission  
EN50082 - Immunity  
Low voltage directive 73/23: EN60255 - Electrical Relays  
EN60688 - Measuring transducers

**ORDERING INFORMATION**

**EXAMPLE:**

**TYPE**  
mV Transmitter

**SUPPLY VOLTAGE**

18-360 VDC and 20-264VAC  
20-28 VAC  
99-140 VAC  
198-264 VAC  
342-484 VAC

**ADJUSTMENT**

Input offset & gain adjustable

Input offset & gain fixed

**HOUSING**

Rail mounting (without transformer)

**SIZE**

35 mm.

**CODE END**

