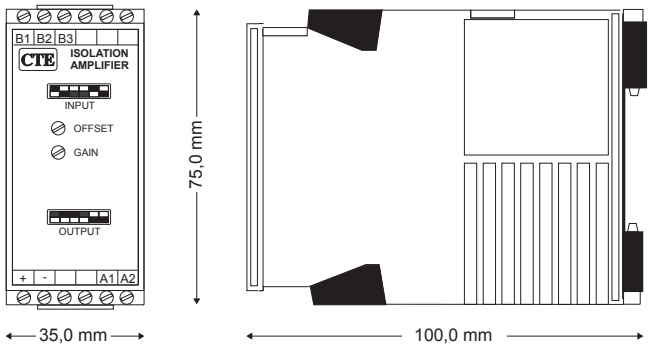


mV TRANSMITTER

Type: AISB

FEATURES

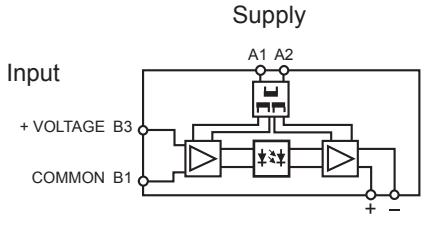
- **mV to standard Current/Voltage conversion**
- **Galvanic separation > 4 kV**
- **4 programmable input ranges**
- **8 programmable output ranges**
- **Excellent linearity**
- **Small outline**

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.

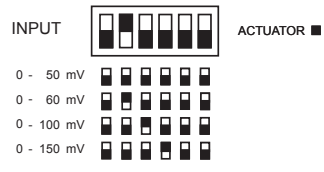
Application:
The mV transmitter is designed for the transmission of signals from distant sensors to the control room or for interface between sensor and PC or PLC. Sensors can be of any kind like: Shunt, measuring bridges or used in weight cells or in temperature units.

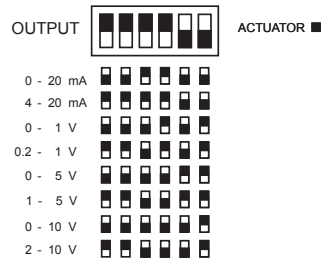
CONNECTION DIAGRAM

Rail mounting

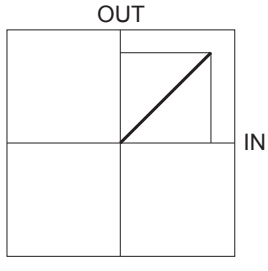


PROGRAMMABLE FEATURES



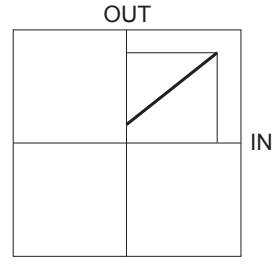


OUTPUT CHARACTERISTICS



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

Thiim A/S
Transformervej 31
2860 Søborg - Denmark
Tel.: +45 4485 8000
Fax: +45 4485 8005
Web: www.thiim.com
Mail: thiim@thiim.com

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.	± 100 % off full scale.
Gain potmeter.	10 - 110 % off full scale.
Input resistance	
Voltage	Approx. 28 kΩ
Current	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		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 with isolated switchmode supply	18-360 VDC and 20-264 VAC
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	

CE

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

ORDERING INFORMATION

EXAMPLE: AISB B230 D A 3 C

TYPE
mV Transmitter — AISB

SUPPLY VOLTAGE

18-360 VDC and 20-264VAC	E400
20-28 VAC	B024
99-140 VAC	B110
198-264 VAC	B230
342-484 VAC	B400

ADJUSTMENT

Input offset & gain adjustable	A
Input offset & gain fixed	D

HOUSING
Rail mounting (without transformer) — A

SIZE
35 mm. — 3

CODE END — C