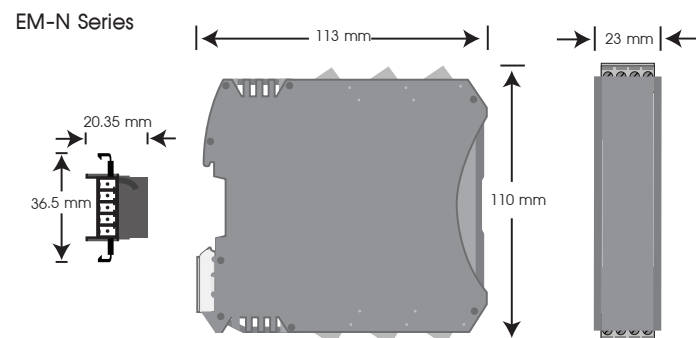




TECHNICAL SPECIFICATION

Model		EM-N Series
Power Supply		100-250 VAC / 50-60 Hz
Power Consumption		12-24 VDC
Input	Channel	1 Input Channel
	Thermocouple	Type K, J, R, T, N, S, E
	RTD	PT100
	Resistance	0-100 Ohm, 0-1kOhm, 0-10kOhm, 0-100kOhm
	DC Current	0-20 mA, 4-20 mA, 0-100 mA
	AC Current	0-5 A
	DC Voltage	0-75 mV, 0-150 mV, 0-1 V, 0-10 V, 0-500 V
	AC Voltage	0 - 5VAC, 0-500 VAC
	Sampling Time	250 mS
Output	Channel	2 Output Max.
	Analog Output	4-20 mA Maximum 500 Ohm 0-10 VDC Minimum 1 kOhm
	Accuracy	± 0.25% F.S of Input measurement
Ambient	Temperature	-10 °C to 60 °C
Operation	Humidity	<85% RH Non-Condensing
Ambient	Temperature	-20 °C to 80 °C
Storage	Humidity	<85% RH Non-Condensing
Protection Degree		IP20
Installation		DIN RAIL
Material		ABS-V0
Size		23 x 113 x 110 mm.
Weight		150 g.

DIMENSION



DESCRIPTION

- Signal convert device from electrical signal to standard analog signal.
- Receive input type AC/DC Current, AC/DC voltage, Resistance and Multi Input from Thermocouple, PT100(RTD).
- Zero, Span to increase/decrease output value maximum 5%.
- Standard analog output signal 4-20 mA or 0-10 VDC.
- Input and Output isolate from each other (Isolation).
- Maximum Output 2 Outputs.
- DIN RAIL Mounting Installation.
- LED shows power supply.

OPERATION

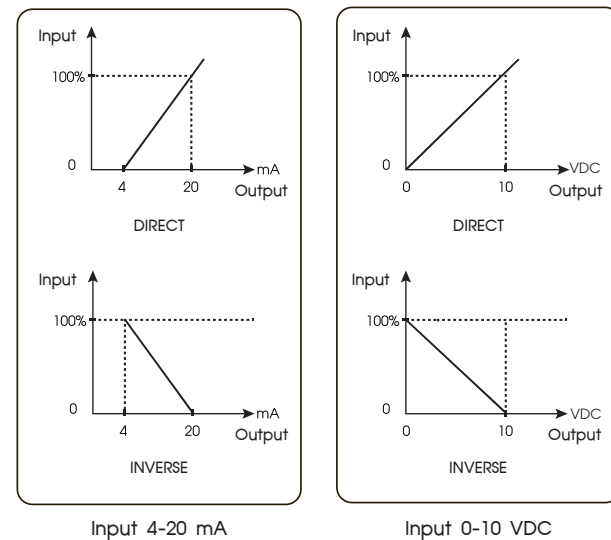
EM-N Series will convert input signal to be standard analog signal 4-20 mA or 0-10 VDC input and output are separated ground from each other and can take output signal to other measure devices. User can choose option to purchase output both Direct and Inverse signal.

Direct: Input has direct variation to output.

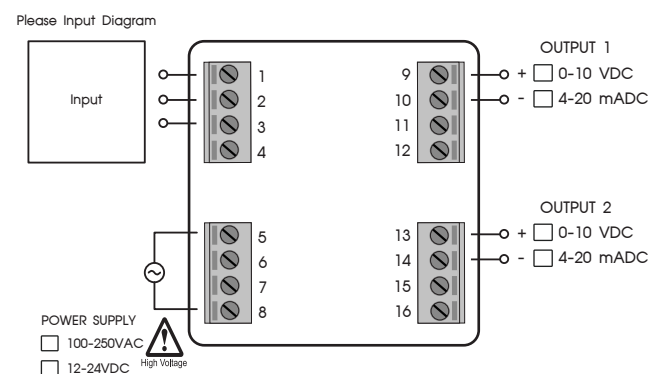
Inverse: Input has inverse variation to output.

Analog output signal show as graph picture (1).

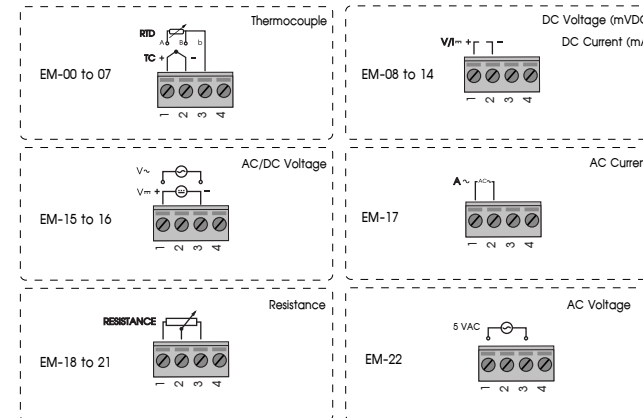
Picture 1.



WIRING DIAGRAM



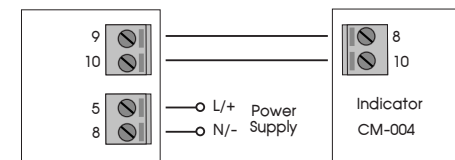
Input Diagram



Output Diagram

Output 0-10 VDC Diagram

EM-N Series



Output 4-20 mA. Diagram

EM-N Series

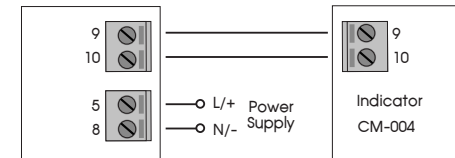


TABLE 1 SELECT INPUT SENSOR

Code	Input Type	Instrument Input Range
00	Thermocouple Type K	-200 to 1372 °C
01	Thermocouple Type J	- 200 to 1200 °C
02	Thermocouple Type R	- 50 to 1680 °C
03	Thermocouple Type T	- 200 to 400 °C
04	Thermocouple Type N	- 200 to 1300 °C
05	Thermocouple Type S	- 50 to 1768 °C
06	Thermocouple Type E	- 200 to 1000 °C
07	PT100	- 200 to 680 °C
08	0-20 mA	0 to 20 mA
09	4-20 mA	4 to 20 mA
10	0-100 mA	0 to 100 mA
11	0-75 mVDC	0 to 75 mVDC
12	0-150 mVDC	0 to 150 mVDC
13	0-1 VDC	0 to 1 VDC
14	0-10 VDC	0 to 10 VDC
15	0-500 VDC	0 to 500 VDC
16	0-500 VAC	0 to 500 VAC
17	0-5 A.AC	0 to 5 A.AC
18	0-100Ω	0 to 100Ω
19	0-1 kΩ	0 to 1 kΩ
20	0-10 kΩ	0 to 10 kΩ
21	0-100 kΩ	0 to 100 kΩ
22	0 - 5 VAC	0 to 5 VAC

ORDERING CODE

Input	Output 1	Output 2	Power Supply
EM - []	N - []	- []	- []
XX Select Table 1.	0 None	0 None	24 12-24 VDC
	G 0-10 VDC	G 0-10 VDC	220 100-250 VAC
	I 4-20 mA	I 4-20 mA	
	V 10-0 VDC (Inverse)	V 10-0 VDC (Inverse)	
	C 20-4 mA (Inverse)	C 20-4 mA (Inverse)	

Remark

- XX For Fixed Input (Select Order Code 1)



EM-N-Series

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