

MT-RTD RTD Converter & Isolator



FEATURE

- Pt100Ω -100~800°C Input 4 Ranges Programmable by dip switches, easy maintain and save stock
- 6 Popular Output Ranges Programmable by dip switches
- Low cost and high stability
- Design by CE standard



SPECIFICATION

Input Range	Input Impedance	Output Range	Load Resistance
Pt100Ω -100 ~ 800°C	≥ 10MΩ	0 ~ 100 mV	≥ 100KΩ
		0 ~ 1 V	≥ 100Ω
		0 ~ 5 V	≥ 500Ω
		0 ~ 10 V	≥ 1KΩ
		1 ~ 5 V	≥ 500Ω
		2 ~ 10 V	≥ 1KΩ
		-10 ~ 0 ~ +10 V	≥ 10KΩ
		0 ~ 1 mA	≤ 10KΩ
		0 ~ 10 mA	≤ 1KΩ
		0 ~ 20 mA	≤ 500Ω
4 ~ 20 mA	≤ 500Ω		

Accuracy: ±0.1% of F.S.
RTD type: DIN Pt100Ω, JIS Pt100Ω
 Option: other RTD type likes Cu10, Ni120...
Sensing current: About 1.5 mA
Response time: ≤ 250 mS
Span adjustment:: ≤ 10% of F.S.
Zero adjustment:: ≤ 5% of F.S.
Output ripple: ≤ 0.1% of F.S.
Sensor break protection: Upscale standard
Power Supply: AC 115 or 230V ±10%, 50/60 Hz
Power consumption: DC 5W, AC 6.5VA

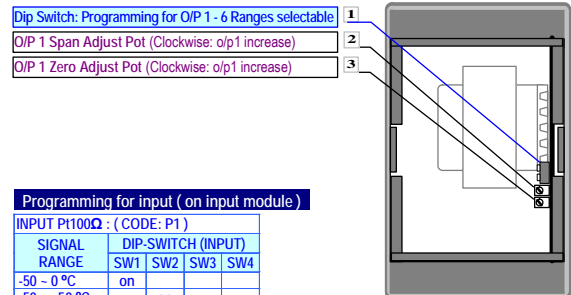
Operating temperature: 0~60 °C
Operating relative humidity: 20~95 %RH, non-condensing
Temperature coefficient: ≤ 100 PPM/°C
Storage temperature: -10~70 °C

Insulation resistance: ≥ 100MΩ @500Vdc
Surge test: 4 KV, 1.2 x 50 μS
Dielectric Strength: AC 2KV, 50/60Hz, 1 min.
 Between Power / Input / Output / Case

Standard: Comply with EN50081-1, EN50082-2
Dimensions: 50mm(W) x 87mm(H) x 123mm(D)-with socket

Mounting: Surface and DIN rail 35mm wide
Weight: 600g

ADJUSTMENT



Programming for input (on input module)

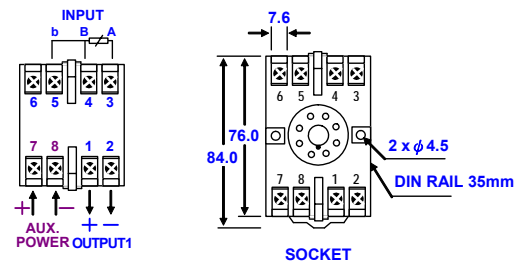
INPUT Pt100Ω : (CODE: P1)				
SIGNAL RANGE	DIP-SWITCH (INPUT)			
RANGE	SW1	SW2	SW3	SW4
-50 ~ 0 °C	on			
-50 ~ +50 °C		on		
-50 ~ +100 °C			on	
-50 ~ +200 °C				on

INPUT Pt100Ω : (CODE: P2)				
SIGNAL RANGE	DIP-SWITCH (INPUT)			
RANGE	SW1	SW2	SW3	SW4
0 ~ 50 °C	on			
0 ~ 100 °C		on		
0 ~ 200 °C			on	
0 ~ 400 °C				on

OUTPUT V / mA : (CODE: P)					
SIGNAL RANGE	DIP-SWITCH (OUTPUT)				
RANGE	SW1	SW2	SW3	SW4	SW5
0 ~ 5 V		on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V			on	on	
2 ~ 10 V	on			on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on

CONNECTION DIAGRAM & SOCKET

MT-RTD WITH 1 Analogue Output



ORDERING INFORMATION

MT-RTD- [Input Range] - [Output Range] - [Aux. Power]

Remark:

- > When you select coding P1, P2, or P for input and output range, please specify initial range.
- > After change input or output range by dip switches (D-S), re-calibration is to be requested.

Current		Voltage		AUX. POWER	
CODE	INPUT RANGE	CODE	OUTPUT	CODE	AUX. POWER
A	-50 ~ +50 °C	A	0 ~ 1 mA	A1	AC 115 V
B	0 ~ 50 °C	B	0 ~ 10 mA	A2	AC 230 V
C	0 ~ 100 °C	C	0 ~ 20 mA	D12	DC 12 V
D	0 ~ 200 °C	D	4 ~ 20 mA	D24	DC 24 V
E	0 ~ 400 °C	E	Excitation	D48	DC 48 V
F	0 ~ 600 °C	I	Specify (mA o/p)	D11	DC 110 V
G	0 ~ 800 °C	P	Programmable 6 ranges (by D-S): 4-20/0-20 mA 0-5/0-10/1-5/ 2-10 V		
		H	-50 ~ +100 °C		
		I	-100 ~ +100 °C		
		J	-100 ~ +600 °C		
		O	Specify temp. range		
		P1	Programmable 4 Ranges (by D-S) -50-0/-50/-100/-200 °C		
		P2	Programmable 4 Ranges (by D-S) 0-50/-100/-200/-400 °C		