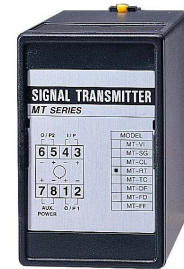


MT-RT POTENTIOMETER (RESISTANCE) CONVERTOR

■ FEATURE

- Measures 3 Wire Potentiometers and 2 Wire resistances
- 2 Pot Ranges and 4 two wire Resistance Range Programmable
- 6 Popular Output Ranges Programmable by dip switches
- Changeable Input Module Between V/mA, Pt100, Potentiometer, Strain Gauge, easy maintain and save stock
- Low cost and high stability
- CE Approved



■ SPECIFICATION

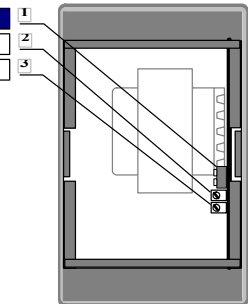
Input Range	Input Impedance	Output Range	Load Resistance
POTENTIOMETER			
0~50/~2.0K ohm	≥ 1M ohm	0 ~ 100 mV	≥ 100K ohm
		≥ 50 ohm	≥ 50 ohm
0~2.0K/~200K ohm	≥ 1M ohm	≥ 250 ohm	≥ 250 ohm
RESISTANCE			
0 ~ 50 ohm	≥ 1M ohm	0 ~ 10 V	≥ 500ohm
0 ~ 100 ohm	≥ 1M ohm	1 ~ 5 V	≥ 250 ohm
0 ~ 200 ohm	≥ 1M ohm	2 ~ 10 V	≥ 500ohm
0 ~ 500 ohm	≥ 1M ohm	-10 ~ 0 ~ +10 V	≥ 1K ohm
0 ~ 1K ohm	≥ 1M ohm	0 ~ 1 mA	≤ 15K ohm
0 ~ 2K ohm	≥ 1M ohm	0 ~ 10 mA	≤ 1500 ohm
0 ~ 5K ohm	≥ 1M ohm	0 ~ 20 mA	≤ 750 ohm
0 ~ 10K ohm	≥ 1M ohm	4 ~ 20 mA	≤ 750ohm
0 ~ 20K ohm	≥ 1M ohm		
0 ~ 50K ohm	≥ 1M ohm		
0 ~ 100 K ohm	≥ 1M ohm		

Accuracy:	±0.1% of F.S.
Option range:	Potentiometer: 0~50 / ~ 200K ohm (3 wired) Resistance: 0 ~ 100K ohm (2 wired)
Excitation:	Potentiometer: 0~50/ ~ 2.0K ohm: 0.2Vdc : 0~2.0K/ ~ 200K ohm: 2Vdc Resistance: 0 ~ 100K ohm: 0.04 ~ 2.00 mAdc
Response time:	≤ 250 msec.
Span adjustment:	≤ 10% of F.S.; Option: 50% of F.S.
Zero adjustment:	≤ 5% of F.S.; Option: 50% of F.S.
Output ripple:	≤ 0.1% of F.S.
Power Supply:	AC 115 or 230V ±15%, 50/60 Hz AC 380 or 415V ±10%, 50/60 Hz Option: DC/AC 20V~90V, (Isolated) DC 5W, AC 6.5VA
Power consumption:	0~60 °C
Operating temperature:	20~95 %RH, non-condensing
Operating relative humidity:	≤ 100 PPM/ °C
Temperature coefficient:	-10~70 °C
Storage temperature:	Between Power / Input / Output
Isolation:	≥ 100M ohm at 500Vdc
Insulation resistance:	4 KV, 1.2 x 50 μ sec.
Surge test:	Common mode & differential mode AC 2.0 KV for 1 min
Dielectric Strength:	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: 500g

■ ADJUSTMENT

Dip Switch: Programming for O/P - 6 Ranges selectable
O/P Span Adjust Pot (Clockwise: o/p increase)
O/P Zero Adjust Pot (Clockwise: o/p increase)



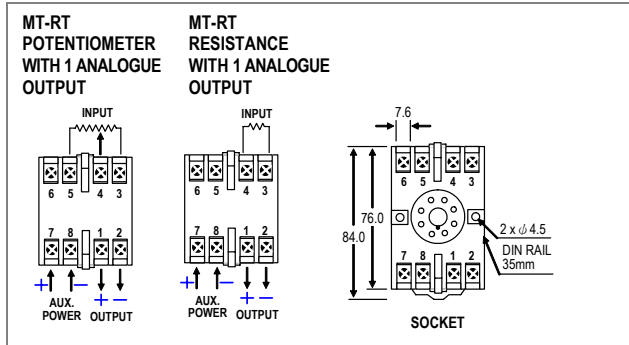
Programming for input (on input module)

INPUT Resistance : (CODE: P1)		DIP-SWITCH (INPUT)			
SIGNAL RANGE		SW1	SW2	SW3	SW4
0Ω ~ 1KΩ		on	on		
0Ω ~ 2KΩ			on	on	
0Ω ~ 5KΩ				on	on
0Ω ~ 10KΩ			on		

INPUT Potentiometer : (CODE: P2)		DIP-SWITCH (INPUT)			
SIGNAL RANGE		SW1	SW2	SW3	SW4
0~50Ω/~2.0KΩ			on	on	
0~2.0K/~200KΩ		on			on

OUTPUT V / mA : (CODE: P)		DIP-SWITCH (OUTPUT)				
SIGNAL 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	on	
0 ~ 20 mA						on
4 ~ 20 mA		on				on

■ CONNECTION DIAGRAM & SOCKET



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.

■ ORDERING INFORMATION

MT-RT-

Input Range

Output Range

Aux. Power

Resistance(2 wired)

Resistance(2 wired)

Potentiometer(3 wired)

Current

Voltage

Aux. Power

CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	INPUT RANGE	CODE	OUTPUT	CODE	OUTPUT	CODE	AUX. POWER
R1	0 ~ 50 ohm	R8	0 ~ 10.0K ohm	RP1	0~50/~10.0KΩ	A	0 ~ 1 mA	1	0 ~ 100 mV	A1	AC 115 V
R2	0 ~ 100 ohm	R9	0 ~ 20.0K ohm	RP2	0~10.0K/~50.0KΩ	B	0 ~ 10 mA	2	0 ~ 1 V	A2	AC 230 V
R3	0 ~ 200 ohm	RA	0 ~ 50.0K ohm	RPO	Specify(3-w Ω)	C	0 ~ 20 mA	3	0 ~ 5 V	A3	AC 380 V
R4	0 ~ 500 ohm	RB	0 ~ 100K ohm	P2	Programmable 2 Ranges (by D-S) 0~50Ω/~2.0KΩ 0~2.0K/~200.0KΩ (Potentiometer)	D	4 ~ 20 mA	4	0 ~ 10 V	A4	AC 415 V
R5	0 ~ 1.0K ohm	RO	Specify(2-w Ω)			I	Specify (mA o/p)	5	1 ~ 5 V	AD1	DC/AC 20~90V
R6	0 ~ 2.0K ohm	P1	Programmable 4 Ranges (by D-S) 0~1.0/~2.0/~5.0/~10.0KΩ (Resistance)			P	Programmable 6 ranges (by D-S): 4~20/0~20 mA 0~5/0~10/1~5/ 2~10 V	6	2 ~ 10 V	AD2	DC/AC 20~90V
R7	0 ~ 5.0K ohm							7	-10 ~ +10 V		
			V	Specify							
			N	None							