Ω (2 or 3 wire) SIGNAL TRANSMITTER & ISOLATOR

TX8-RT

► FEATURES

- Measures 3 Wire Potentiometers and 2 Wire resistances
- 2 Pot Ranges and 4 two wire Resistance Ranges Programmable
- 6 Output Ranges Programmable
- Plugs into 8 pin Din Rail mounted base
- Low cost & high stability
- CE Approved

► SPECIFICATION

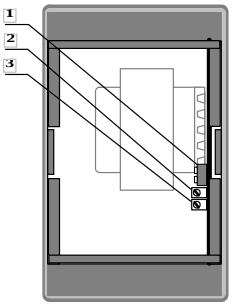
Input Range	Input Impedance	Output Range	Load Resistance
POTENTIOMETER		0 ~ 100 mV	≧100K ohm
50Ω ~ 200K ohm	≧1M ohm	0 ~ 1 V	≧50 ohm
RESISTANCE		0 ~ 5 V	≧250 ohm
0 ~ 50 ohm	≧1M ohm	0 ~ 10 V	≧500ohm
0 ~ 100 ohm	≧1M ohm	1 ~ 5 V	≧250 ohm
0 ~ 200 ohm	≧1M ohm	2 ~ 10 V	≧500ohm
0 ~ 500 ohm	≧1M ohm	-10 ~ 0 ~ +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		

Accuracy: ±0.1% of F.S.
Option range: Potentiometer: 0~50 / ~ 200K ohm (3 wire)
Resistance: 0 ~ 100K ohm (2 wire)
Excitation: Potentiometer: 50 ~ 2K ohm: 0.2Vdc
: 2K ~ 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 ±15%, 50/60 Hz
Option: DC 12V, 24V, 48V ±10%, (Isolated)
Power consumption: DC 5W, AC 6.5VA
Operating temperature: 0~60 ℃
Operating relative humidity: 20~95 %RH, non-condensing
Temperature coefficient: ≦100 PPM/℃
Storage temperature: -10~70 ℃
Isolation: Between Power / Input / Output
Insulation resistance: ≧100M ohm at 500Vdc
Surge test: 4 KV, 1.2 x 50 μ sec.
Common mode & differential mode
Dielectric Strength: AC 2.0 KV for 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: 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)

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

INPUT Potentiometer : (CODE: P2)

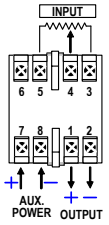
SIGNAL RANGE	DIP-SWITCH (INPUT) SW1	SW2	SW3	SW4
50 Ω ~ 2 KΩ		on	on	
2 KΩ ~ 50 KΩ	on			on

OUTPUT V / mA : (CODE: P)

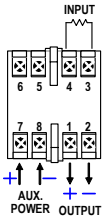
SIGNAL RANGE	DIP-SWITCH (OUTPUT) SW1	SW2	SW3	SW4	SW5
0 ~ 5 V		on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V			on	on	
2 ~ 10 V	on		on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on

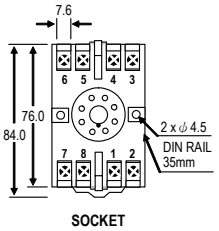
► CONNECTION DIAGRAM & SOCKET (8 PIN)

MT-RT POTENTIOMETER WITH 1 ANALOGUE OUTPUT



MT-RT RESISTANCE WITH 1 ANALOGUE OUTPUT





SOCKET

► ORDER CODING

TX8-RT- [Input Range] — [Output Range] — [Aux. Power]

Resistance(2 wire)

CODE	INPUT RANGE
R1	0 ~ 50 ohm
R2	0 ~ 100 ohm
R3	0 ~ 200 ohm
R4	0 ~ 500 ohm
R5	0 ~ 1.0K ohm
R6	0 ~ 2.0K ohm
R7	0 ~ 5.0K ohm

Resistance(2 wire)

CODE	INPUT RANGE
R8	0 ~ 10.0K ohm
R9	0 ~ 20.0K ohm
RA	0 ~ 50.0K ohm
RB	0 ~ 100K ohm
RO	Specify(2-w Ω)
P1	4 Programmable Ranges 0~1.0/~2.0/~5.0 /~10.0 KΩ

Potentiometer(3 wire)

CODE	INPUT RANGE
RP1	0~50/~10KΩ
RP2	0~10K/~50KΩ
RPO	Specify(3-w Ω)
P2	Programmable 2 Ranges 0~2.0KΩ 2K~200.0KΩ

Current

CODE	OUTPUT
A	0 ~ 1 mA
B	0 ~ 10 mA
C	0 ~ 20 mA
D	4 ~ 20 mA
I	Specify (mA o/p)
Programmable Ranges 0~5V/~10V/1~5V//2~10V/0 ~20mA/4~20mA	

Voltage

CODE	OUTPUT
1	0 ~ 100 mV
2	0 ~ 1 V
3	0 ~ 5 V
4	0 ~ 10 V
5	1 ~ 5 V
6	2 ~ 10 V
7	-10 ~ +10 V
V	Specify
N	None

Aux. Power

CODE	AUX. POWER
A1	AC 115 V
A2	AC 230 V
A3	AC 380 V
A4	AC 415 V
D12	DC 12 V
D24	DC 24 V
D48	DC 48 V
AD1	20~90Vdc/ac
AD2	90~265Vdc/ac

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