RTD SIGNAL TRANSMITTER & ISOLATOR

TX8-RTD

► FEATURES

- Measures RTD (PT100) from -100 ~ 800℃
- 4 Popular Input and 6 Output Ranges Programmable
- Plugs into 8 pin Din Rail mounted base
- Low cost & high stability
- CE Approved

► SPECIFICATION

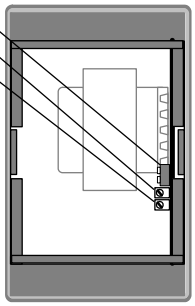
Input Range	Input Impedance	Output Range	Load Resistance
Pt100Ω -100 ~ 800℃	≧10M ohm	0 ~ 100 mV	≧100K ohm
		0 ~ 1 V	≧50 ohm
		0 ~ 5 V	≧250 ohm
		0 ~ 10 V	≧500ohm
		1 ~ 5 V	≧250 ohm
		2 ~ 10 V	≧500ohm
		-10 ~ 0 ~ +10 V	≧1K ohm
		0 ~ 1 mA	≦15K ohm
		0 ~ 10 mA	≦1500 ohm
		0 ~ 20 mA	≦750 ohm
		4 ~ 20 mA	≦750ohm

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 msec.
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 ±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
≧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 1 - 6 Ranges selectable
O/P 1 Span Adjust Pot (Clockwise: o/p1 increase)
O/P 1 Zero Adjust Pot (Clockwise: o/p1 increase)



Programming for input (on input module)

INPUT Pt100? : (CODE: P1)

SIGNAL RANGE	DIP-SWITCH (INPUT) SW1	SW2	SW3	SW4
-50 ~ 0 ºC			on	
-50 ~ +50 ºC	on		on	
-50 ~ +100 ºC		on		
-50 ~ +200 ºC	on	on		

INPUT Pt100? : (CODE: P2)

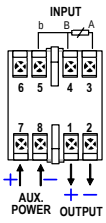
SIGNAL RANGE	DIP-SWITCH (INPUT) SW1	SW2	SW3	SW4
0 ~ 50 ºC			on	
0 ~ 100 ºC	on		on	
0 ~ 200 ºC		on		
0 ~ 400 ºC	on	on		

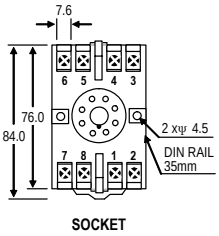
OUTPUT V / mA : (CODE: P)

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

MT-RTD WITH
1 Analogue Output





SOCKET

► ORDER CODING

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

CODE	INPUT RANGE	CODE	INPUT RANGE
A	-50 ~ +50 ºC	H	-50 ~ +100 ºC
B	0 ~ 50 ºC	I	-100 ~ +100 ºC
C	0 ~ 100 ºC	J	-100 ~ +600 ºC
D	0 ~ 200 ºC	O	Specify temp. range
E	0 ~ 400 ºC	Programmable Ranges 0~50/~100/~200/~400 ºC or -50~0/~50/~100/~200 ºC	
F	0 ~ 600 ºC		
G	0 ~ 800 ºC		
K	0 ~ 150 ºC		

Current / Voltage

CODE	OUTPUT	CODE	OUTPUT
A	0 ~ 1 mA	1	0 ~ 100 mV
B	0 ~ 10 mA	2	0 ~ 1 V
C	0 ~ 20 mA	3	0 ~ 5 V
D	4 ~ 20 mA	4	0 ~ 10 V
E	Excitation	5	1 ~ 5 V
I	Specify (mA o/p)	6	2 ~ 10 V
Programmable Ranges 0~5V/~10V/1~5V//2~10V/0 ~20mA/4~20mA		7	-10 ~ +10 V
		V	Specify (Vo/p)
		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
D11	DC 110 V
AD1	20~90Vdc/ac
AD2	90~265Vdc/ac