

# RTD Transmitters (Pt100) SLIMPACK

TX-RTD

## ► FEATURES

- Input Pt100Ω (3-wire) -100 ~ +800 °C
- Output 0~5V / 1~5V / 0~1mA / 0~10mA / 0~20mA / 4~20mA selected by dip switch
- Dual output available. 22.5 mm thin profile DIN rail mounting
- Wide power supply range AC/DC 20 ~ 265V
- CE Approved



## ► ORDER CODING

TX - RTD

Output No.	Input Range	Output Signal 1	Output Signal 2	Aux. Power					
<b>CODE</b>	<b>OUTPUT</b>	<b>CODE</b>	<b>TEMP. RANGE</b>	<b>CODE</b>	<b>TEMP. RANGE</b>	<b>CODE</b>	<b>OUTPUT RANGE</b>	<b>CODE</b>	<b>AUX. POWER</b>
1	Single output	A	-50 ~ +50 °C	F	0 ~ 600 °C	A	0 ~ 1 mA**	AD	AC/DC 20~264 V
2	Dual output	B	0 ~ 50 °C	G	0 ~ 800 °C	B	0 ~ 10 mA**		
		C	0 ~ 100 °C	H	-50 ~ +100 °C	C	0 ~ 20 mA		
		D	0 ~ 200 °C	I	-100 ~ +100 °C	D	4 ~ 20 mA		
		E	0 ~ 400 °C	J	-100 ~ +600 °C	4	0 ~ 10V		
		O	Special Cal	K	0 ~ 150 °C*	5	1 ~ 5 V		

Notes  
\*unique range  
\*\* unique output  
selectable around July 2008

## ► TECHNICAL DATA

### Signal input (input range changed by dip-switch)

Input Range	Input Signal (Selected by dip-switch on pcb)	Input Impedance
Pt100Ω (DIN)	P1 0~50 / 100 / 200 / 400 °C P2 0~200 / 400 / 600 / 800 °C P3 -50~50 / 100 / 200 / 400 °C	1MΩ

### Analogue output (output range changed by dip-switch)

Output Range	Load Resistance	Output Signal (Selected by terminals)
0 ~ 20mAdc	≤600Ω	Output 1: Io(mA output by terminal 9+ & 8-)
4 ~ 20mAdc	≤600Ω	Output 1: Vo(V output by terminal 7+ & 8-)
0 ~ 10Vdc	≥500Ω	Output 2: Io(mA output by terminal 12+ & 11-)
0 ~ 5Vdc	≥500Ω	Output 2: Vo(V output by terminal 10+ & 11-)
1 ~ 5Vdc	≥500Ω	

- Accuracy:** ≤±0.2% of F.S.  
**Linearity:** ≤±2% of F.S.  
**Response time:** ≤0.1% of F.S.  
**Output ripple:** ≤250msec (10%~90% of FS)  
**Span adjustment:** ≤±0.1% of F.S.  
**Zero adjustment:** ±20% of F.S.  
**Zero adjustment:** ±10% of F.S.

### Power

- Power supply:** AC/DC 20~265V  
**Power consumption:** DC 4W, AC 5.0VA

### Environmental

- Operating Temperature:** 0~60 °C  
**Operating humidity:** 20~95% RH, Non-condensing  
**Temperature Coefficient:** 100PPM/ °C (0~50 °C)  
**Storage temperature:** -10~70 °C  
**Protection:** IP 42

### Mechanical

- Dimensions:** 81.8mm x 99mm x 22.5mm  
**Housing:** Self-extinguishing, black ABS, UL94V0  
**Terminals:** Screw terminal, up to 2 x 2.5mm<sup>2</sup> wire  
**Mounting:** 35mm DIN rail (EN50022)  
**Weight:** 250g

### Specification

- Electrical Safety:** IEC 61010 (Installation category 3)  
**EMC:** EN 61326  
**Dielectric Strength:** AC 2.0 KV for 1 min, Between Power/Input/Output  
**Isolation:** 500Vdc Between Power / Input / Output  
**Dielectric Strength:** AC 2.0 KV for 1 min, Between Power/Input/Output

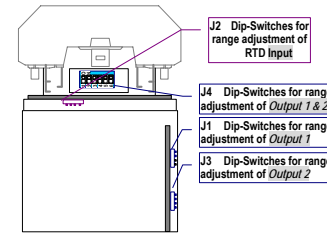
## ► ADJUSTMENT

### Signal input

RTD INPUT : (CODE: P1)		DIP SWITCH (J2)				
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5	SW6
0 ~ 50 °C	on	off	on	on	on	on
0 ~ 100 °C	on	on	on	on	on	on
0 ~ 200 °C	on	on	on	on	on	on
0 ~ 400 °C	on	on	on	on	on	on

RTD INPUT : (CODE: P2)		DIP SWITCH (J2)				
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5	SW6
0 ~ 200 °C	on	off	on	on	on	on
0 ~ 400 °C	on	on	on	on	on	on
0 ~ 600 °C	on	on	on	on	on	on
0 ~ 800 °C	on	on	on	on	on	on

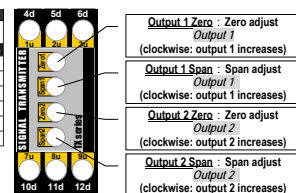
RTD INPUT : (CODE: P3)		DIP SWITCH (J2)				
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5	SW6
-50 ~ +50 °C	on	off	on	on	on	on
-50 ~ +100 °C	on	on	on	on	on	on
-50 ~ +200 °C	on	on	on	on	on	on
-50 ~ +400 °C	on	on	on	on	on	on



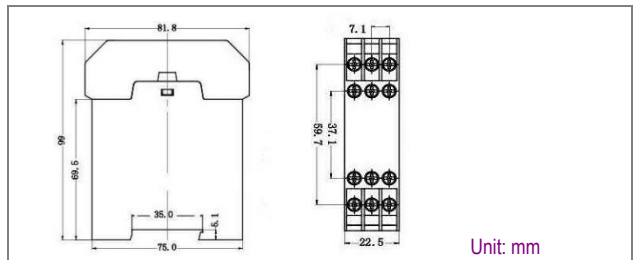
### Signal output

OUTPUT : (CODE: P)		DIP SWITCH (J1-OIP1 & J2-OIP2)					DIP SWITCH (J4)					
SIGNAL RANGE	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11	SW12
0 ~ 10 V	on	off	on	on	on	on	on	on	on	on	on	on
0 ~ 1mA	on	on	on	on	on	on	on	on	on	on	on	on
1 ~ 5 V	on	on	on	on	on	on	on	on	on	on	on	on
0 ~ 10mA	on	on	on	on	on	on	on	on	on	on	on	on
0 ~ 20 mA	on	on	on	on	on	on	on	on	on	on	on	on
4 ~ 20 mA	on	on	on	on	on	on	on	on	on	on	on	on

0~1mA and 0~10mA not available by dipswitch until July 2008.



## ► DIMENSIONS



## ► CONNECTION DIAGRAM

