

FEATURE

- Accuracy: RTD: 0.5%, T/C: 0.75%
- Wide selection of input
- Low output ripple
- High stability & low cost



SPECIFICATION

2 - WIRE TEMP. TRANSMITTER

Input Range	Input Impedance	Output Range	Load Resistance
Type K, 0 ~ 1200°C	≥ 1M ohm	4 ~ 20 mA	≤ (Vs-12) / 20mA (ohm)
Type J, 0 ~ 1000°C	≥ 1M ohm		
Type E, 0 ~ 800°C	≥ 1M ohm		
Type T, -50 ~ 400°C	≥ 1M ohm		
Pt100 Ω, -100 ~ 800°C	≥ 10M ohm		

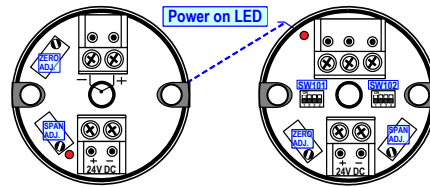
- Accuracy:** RTD (Pt100): ±0.15% of FSO
T/C (K, J, E, T): ±0.3% of FSO
- Response time:** ≤ 300 msec.
- Span adjustment:** ≤ 10% of FSO
- Zero adjustment:** ≤ 5% of FSO
- Output ripple:** ≤ 0.3% of FSO
- Power Supply:** DC 16 ~ 36V
- Open circuit protection:** Upscale ≥ 22mA
- Operating temperature:** 0~60°C
- Operating relative humidity:** 20~95 %RH
- Temperature coefficient:** ≤ 100 PPM/°C
- Cold junction compensation:** 25±10°C, error ≤ 0.5°C
- Storage temperature:** -10~70°C
- Weight:** 50g

- Mechanical**
- Material:** Tube, Connection: St. Steel 316
Head: Aluminum case
- Tube diameter:** 3.2, 4.8, 6.4, 8.0, 9.0, 12.75 mm
- Connection:** 1/4", 3/8", 1/2" NPT or PT male
Sliding connection or Flange available
- Thermo-Well:** 1/4", 3/8", 1/2" NPT or PT male
Flange available

ADJUSTMENT

Thermocouple input:

Pt100Ω input:



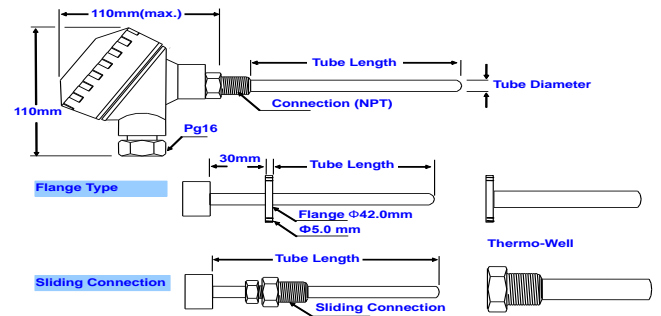
ZERO: Zero Adjust Pot (Clockwise: o/p increase)

SPAN: Span Adjust Pot (Clockwise: o/p increase)

Pt100Ω Range Selection	SW101	1	2	3	4
OFFSET					
+50 °C	ON				
+20 °C		ON			
0 °C			ON		
-20 °C				ON	

SPAN (8)	1	2	3	4
50 °C				
100 °C				ON
150 °C			ON	
200 °C				ON
250 °C	ON			
300 °C		ON		
350 °C			ON	
400 °C	ON	ON	ON	ON
450 °C	ON			
500 °C	ON			
550 °C	ON			
600 °C		ON		
650 °C	ON	ON	ON	ON
700 °C	ON	ON	ON	ON
750 °C	ON	ON	ON	ON
800 °C	ON	ON	ON	ON

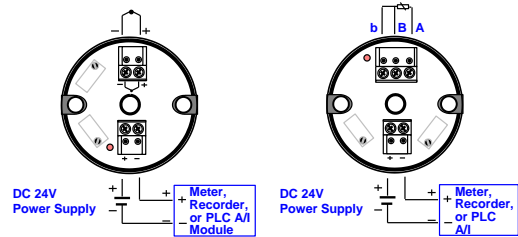
DIMENSIONS



CONNECTION DIAGRAM

T/C Transmitter

Pt100Ω Transmitter



ORDER INFORMATION

RTD		THERMOCOUPLE			CODE	TEMPERATURE RANGE	CODE	LENGTH	CODE	DIAMETER	CODE	CONNECTION	CODE	THERMO-WELL						
P	K	J	E	T											A	B	C	D	E	F
•				•	A	-50 ~ +100°C	03	30 mm	3	3.2 mm	N2	1/4" NPT	N2	1/4" NPT						
•					B	-10 ~ +40°C	04	40 mm	4	4.8 mm	N3	3/8" NPT	N3	3/8" NPT						
•					C	0 ~ 50°C	05	50 mm	5	6.3 mm	N4	1/2" NPT	N4	1/2" NPT						
•	•	•	•	•	D	0 ~ 100°C	06	60 mm	6	6.4 mm	P2	1/4" PT	P1	3/4" PT						
•	•	•	•	•	E	0 ~ 200°C	08	80 mm	8	8.0 mm	P3	3/8" PT	P2	1/4" PT						
•	•	•	•	•	F	0 ~ 400°C	10	100 mm	9	9.0 mm	P4	1/2" PT	P3	3/8" PT						
•	•	•	•	•	G	0 ~ 500°C	12	120 mm	C	12.75 mm	G2	1/4" PF	P4	1/2" PT						
•	•	•	•	•	H	0 ~ 600°C	15	150 mm	O	Specify	G3	3/8" PF	G2	1/4" PF						
•	•	•	•	•	I	0 ~ 800°C	20	200 mm			G4	1/2" PF	G3	3/8" PF						
•	•	•	•	•	J	0 ~ 1000°C	25	250 mm			S2	1/4" NPT Sliding	G4	1/2" PF						
•	•	•	•	•	K	0 ~ 1200°C	30	300 mm			S3	3/8" NPT Sliding	F4	Ø42mm Flange						
•	•	•	•	•	L	-20~80°C	40	400 mm			S4	1/2" NPT Sliding	N	None						
•	•	•	•	•	M	-50~200°C	1A	175 mm			F4	Ø42mm Flange	O	Specify						
•	•	•	•	•	N	0~120°C	O	Specify			N	None								
•	•	•	•	•	P	-50~150°C					O	Specify								
•	•	•	•	•	O	Specify														