

TS 2 WIRE TEMP. Transmitter WITH SENSOR

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		
Pt100Ω, -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)

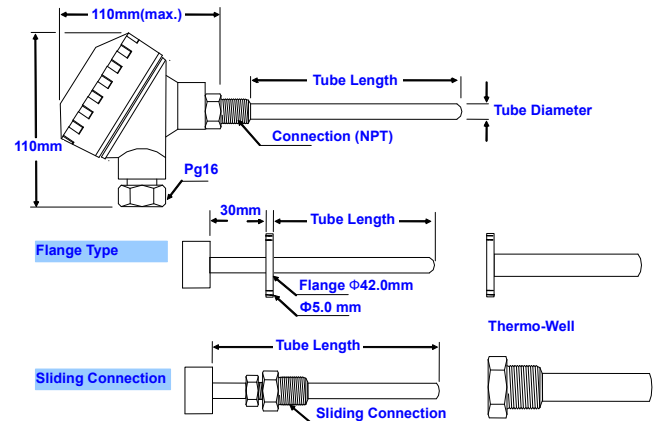
SPAN: Span Adjust Pot (Clockwise: o/p increase)

Pt100Ω Range Selection

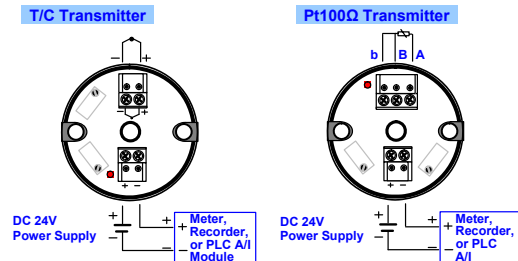
SW101	1	2	3	4
OFFSET				
+50 °C	ON			
+20 °C		ON		
0 °C			ON	
-20 °C				ON

SW102	1	2	3	4
SPAN (B)	(4)	(2)	(1)	
50 °C				ON
100 °C				ON
150 °C			ON	
200 °C			ON	ON
250 °C		ON		
300 °C		ON		
350 °C	ON			
400 °C	ON	ON		
450 °C	ON			
500 °C	ON			ON
550 °C	ON			ON
600 °C	ON		ON	
650 °C	ON	ON		
700 °C	ON	ON		
750 °C	ON	ON	ON	
800 °C	ON	ON	ON	ON

DIMENSIONS



CONNECTION DIAGRAM



ORDER INFORMATION

TS — Input Type — Input Range — Tube Length — Tube Diameter — Connection — Thermo-Well

RTD	THERMOCOUPLE	CODE	TEMPERATURE RANGE	CODE	LENGTH	CODE	DIAMETER	CODE	CONNECTION	CODE	THERMO-WELL
P	K	J	E	T	A	03	30 mm	N2	1/4" NPT	N2	1/4" NPT
•				•	B	04	40 mm	N3	3/8" NPT	N3	3/8" NPT
•					C	05	50 mm	N4	1/2" NPT	N4	1/2" NPT
•	•	•	•	•	D	06	60 mm	P2	1/4" PT	P2	1/4" PT
•	•	•	•	•	E	08	80 mm	P3	3/8" PT	P3	3/8" PT
•	•	•	•	•	F	10	100 mm	P4	1/2" PT	P4	1/2" PT
•	•	•	•	•	G	12	120 mm	G2	1/4" PF	G2	1/4" PF
•	•	•	•	•	H	15	150 mm	G3	3/8" PF	G3	3/8" PF
•	•	•	•	•	I	20	200 mm	G4	1/2" PF	G4	1/2" PF
•	•	•	•	•	J	25	250 mm	S2	1/4" NPT Sliding	F4	Φ42mm Flange
•	•	•	•	•	K	30	300 mm	S3	3/8" NPT Sliding	N	None
	•				O	40	400 mm	S4	1/2" NPT Sliding	O	Specify
						O	Specify	F4	Φ42mm Flange		
								N	None		
								O	Specify		