

2-WIRE TEMP. TRANSMITTER WITH SENSOR

TS^(1.1)

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 R.O.
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	T/C (K, J, E, T): ±0.3% of R.O.
Response time:	≤ 300 msec.
Span adjustment:	≤ 10% of R.O.
Zero adjustment:	≤ 5% of R.O.
Output ripple:	≤ 0.3% of R.O.
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:

PT100Ω Range Selection

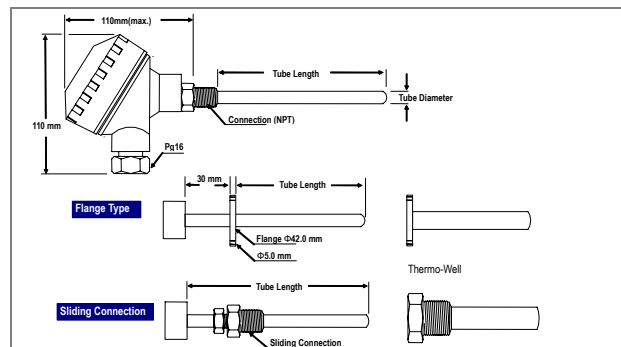
SW101	1	2	3	4
OFFSET				
+50 °C				ON
+20 °C				ON
0 °C				ON
-20 °C				ON

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

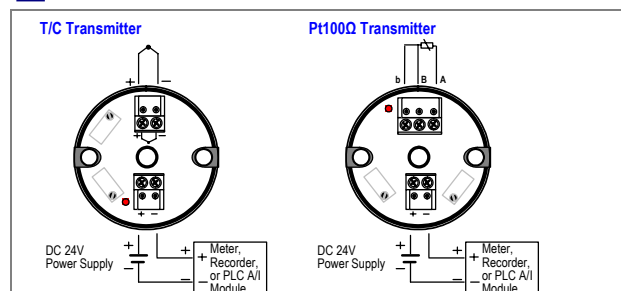
ZERO: Zero Adjust Pot (Clockwise: o/p increase)

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

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	-50 ~+100°C	03	30 mm	3	3.2 mm	G2	1/4" PT	G2	1/4" PT
●				●		B	-10 ~+40°C	04	40 mm	4	4.8 mm	G3	3/8" PT	G3	3/8" PT
●						C	0 ~ 50°C	05	50 mm	6	6.4 mm	G4	1/2" PT	G4	1/2" PT
●	●	●	●	●		D	0 ~ 100°C	06	60 mm	8	8.0 mm	N2	1/4" NPT	N2	1/4" NPT
●	●	●	●	●		E	0 ~ 200°C	08	80 mm	9	9.0 mm	N3	3/8" NPT	N3	3/8" NPT
●	●	●	●	●		F	0 ~ 400°C	10	100 mm	C	12.75 mm	N4	1/2" NPT	N4	1/2" NPT
●	●	●	●	●		G	0 ~ 500°C	12	120 mm	O	Specify	S2	1/4" NPT Sliding	F4	Ø42mm Flange
●	●	●	●			H	0 ~ 600°C	15	150 mm			S3	1/4" NPT Sliding	N	None
●	●	●	●			I	0 ~ 800°C	20	200 mm			S4	1/4" NPT Sliding	O	Specify
●	●	●	●			J	0 ~ 1000°C	25	250 mm			F4	Ø42mm Flange		
●	●	●				K	0 ~ 1200°C	30	300 mm			N	None		
	●					O	Specify	40	400 mm			O	Specify		
								O	Specify						