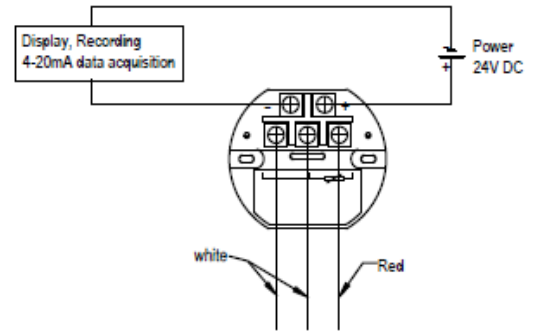
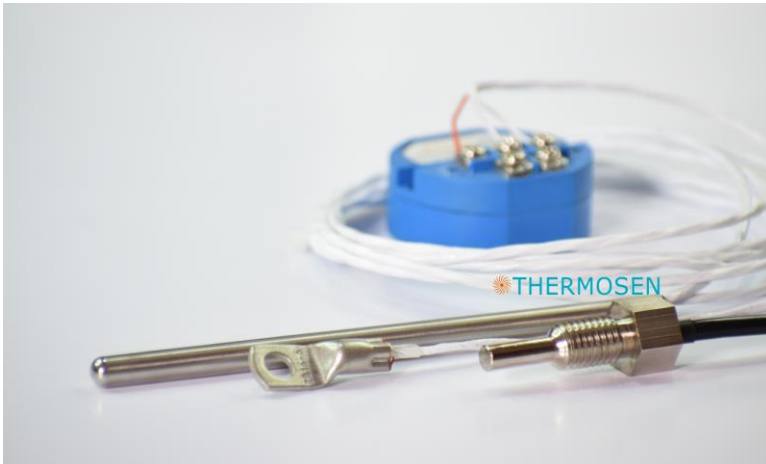


Description: 3 WIRE PT100 (RTD) TRANSMITTER WITH 4-20mA OUTPUT



- RTD, input PT100 with output 4-20mA
- High measurement Accuracy ranging -50 to 150 °C
- Different construction for RTD with custom wire length
- 3-Wire Connection
- Programmable Sensor Error Value
- Complies with European ATEX and CSA/FM requirements for Hazardous location installation



FEATURES

Direct input to Data logger/ SCADA for monitoring

Output can be read with multimeter

Linear Temperature-Current curve

Wide range to cover from -50 to 150 °C

APPLICATIONS

- Linearized temperature measurement with pt100
- Conversion of linear resistance variation to a standard analog current Signal
- Wide Industrial application

Technical Characteristics:

- The RTD and resistance inputs have cable compensation for 3-wire connections.

Output:**Current Output:**

Signal range4-20 mA
 Min. signal range.....16 mA
 Updating time135 ms
 Load resistance $\leq (V_{\text{supply}} - 8) / 0.023 [\Omega]$
 Load stability $< \pm 0.01\%$ of span/100 Ω

Input: RTD and Linear Resistance Input:

Max. offset50% of selected max. value
 Cable resistance per wire (max.)10 Ω
 Sensor current $> 0.2 \text{ mA}$, $< 0.4 \text{ mA}$
 Effect of sensor cable resistance (3-wire) $< 0.002 \Omega / \Omega$
 Sensor error detectionYes

Mounting/Installation:

- Supplied with 2 x M4 screws on a 18 mm (0.1") (screws available)

Electrical Specifications

Specifications Range: -50°C to +150°C

Common Specifications:

Supply voltage, DC 24 VDC
 Internal consumption ..25 mW...0.8 W
 Warm-up time.30 Sec.
 Response time.....33...60s
 Calibration temperature0°C,25°C 50°C,100°C,
 Effect of supply voltage variation $\leq 0.005\%$ of span / VDC
 Max wire size.....24AWG stranded wire
 Humidity $< 95\%$ RH (non-cond.)
 Dimensions $\varnothing 44 \times 21.0\text{mm}$
 Protection degree (encl. / terminal) ...IP68
 Weight50 g

TEMPERATURE TO CURRENT REFERENCE VALUES

PT100 (3- WIRE) TRANSMITTER V:24 VDC , CURRENT OUT -4~20 mA Range : -50°c
to 150°c

TEMPERATURE (°C)	CURRENT (mA)	DIFFERENCE
-50	4.03	
-40	4.63	0.6
-30	5.62	0.99
-20	6.44	0.82
-10	7.24	0.8
-5	7.65	0.41
0	8.06	0.41
5	8.47	0.41
10	8.83	0.36
15	9.28	0.45
20	9.67	0.39
25	10.08	0.41
30	10.49	0.41
40	11.3	0.81
50	12.12	0.82
60	12.9	0.78
70	13.71	0.81
80	14.5	0.79
90	15.31	0.81
100	16.12	0.81
110	16.93	0.81
120	17.74	0.81
130	18.55	0.81
140	19.36	0.81
150	19.9	0.54

PT100 (3-WIRE) TRANSMITTER V:24 VDC , CURRENT OUT -4~20 mA Range : 0°C to 100°C

TEMPERATURE (°C)	CURRENT (mA)	DIFFERENCE
0	4.02	
10	5.61	1.59
20	7.23	1.62
30	8.85	1.62
40	10.46	1.61
50	12.09	1.63
60	13.69	1.6
70	15.3	1.61
80	16.93	1.63
90	18.55	1.62
100	19.26	0.71

PT100 (3-WIRE) TRANSMITTER V:24 VDC , CURRENT OUT -4~20 mA Range : 0°C to 200°C

TEMPERATURE (°C)	CURRENT (mA)	DIFFERENCE
0	3.95	
5	3.95	0
10	4.31	0.36
15	4.71	0.4
20	5.1	0.39
25	5.5	0.4
30	5.9	0.4
35	6.3	0.4
40	6.69	0.39
45	7.09	0.4
50	7.45	0.36
55	7.85	0.4
60	8.25	0.4
65	8.65	0.4
70	9.05	0.4
75	9.43	0.38
80	9.86	0.43
85	10.26	0.4
90	10.68	0.42
95	11.03	0.35
100	11.4	0.37