

**FLAMEPROOF, IP65**



**Universal input :**

**8 thermocouples, Pt100, 0/4~20 mA (Input group 0)**

**0/4~20 mA, 0~10 V DC (Input group 1)**

**Option : 0 ~ 10 V DC, 0/4 ~ 20 mA**

**85~265 V AC SMPS**

**Accuracy : 0.1% of full scale 1 C, typical**

**Sensor break indication**

**SPECIFICATIONS** All specifications at ambient of 25 C, unless specified otherwise

<p><b>Input</b>  <b>Input group 0</b>                  Thermocouple                  RTD                  Linear input  <b>Input group 1</b>                  Linear input                  Load resistance for 0/4~20 mA input                  Transmitter supply</p> <p><b>Range limits</b>  <b>Accuracy</b>  <b>Temperature coefficient of accuracy</b>  <b>Cold junction compensation</b>  <b>Units</b>                  Pt100, Thermocouple                  Linear                  Mutual isolation between input/supply</p> <p><b>Indication</b>                  Display</p>	<p>B, E, J, K, N, R, S, T                  Pt100                  4~20 mA, 0~20 mA                  4~20 mA, 0~20 mA, 0~10 V DC                  250 <math>\Omega</math>, internally provided                  22 V DC, Nominal, 30 mA max (17 V DC available across transmitter; for HART transmitter, please inquire)                  See Table 1                  See Table 1  <math>\pm 0.02\%</math> of span / °C                  Automatic                  °C (For °F, contact us)                  EU                  1 KV AC / 1 minute                  4 digit, 7 segment 0.56" (14.2 mm) red LED display</p>	<p><b>Programmable Parameters</b>  <b>Resolution</b></p> <p><b>Bias</b>  <b>High scale</b>  <b>Low scale</b></p> <p><b>Other</b>  <b>Enclosure</b></p> <p><b>Protection</b>  <b>Keyboard</b>  <b>Material</b>  <b>Dimensions (in mm)</b>  <b>Mounting</b>  <b>Mounting accessories</b>  <b>Connection, single/stranded wires</b>  <b>Supply voltage</b>  <b>Power consumption</b>  <b>Operating ambient temperature</b>  <b>Relative humidity</b></p>	<p>User selectable                  1 (for TC)                  0.1, 1 (for RTD)                  0.001, 0.01, 0.1, 1 (for linear input)                  -99.9 to 99.9                  Full range (See Table 1)                  Full range (See Table 1)</p> <p>Certified flameproof for gas groups I, IIA &amp; IIB                  IP65                  Tactile, 3 keys, inside enclosure                  Aluminium alloy                  250(H) x 150(W) x 95(D)                  Wall mount / Pipe mount                  Included                  2.5 mm<sup>2</sup>, AWG 14                  85~265 V AC, 50/60 Hz                  3 watts maximum                  0 ~ 50 °C                  Below 90%, non condensing</p>
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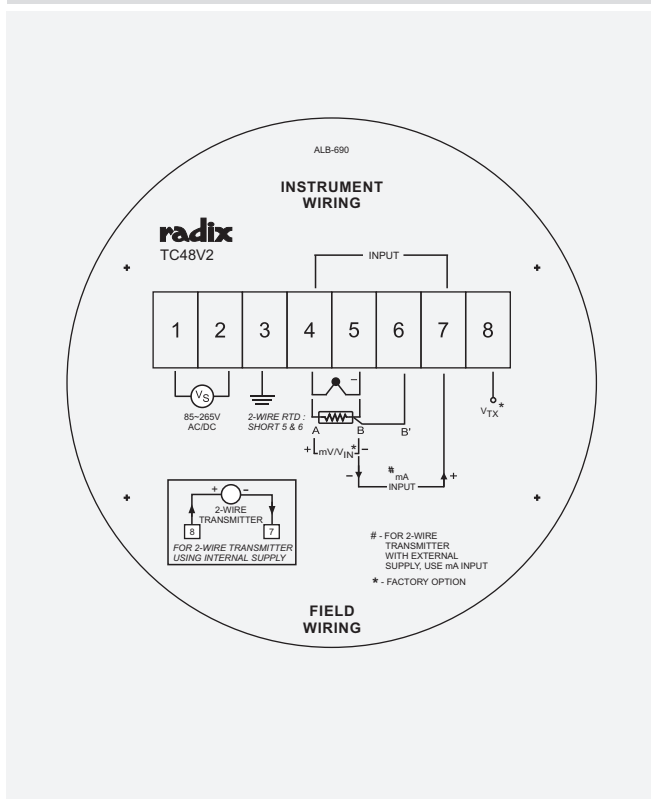
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**TABLE 1**

SENSOR / INPUT	RANGE LIMITS (°C / EU)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C / EU)	WORST CASE ACCURACY AT 30 °C (°C / EU)
	LOW SCALE	HIGH SCALE	LOW SCALE	HIGH SCALE		
Iron / Constantan (J)	-99	750	0	750	± 1	± 3
Chromel / Alumel (K)	-99	1350	-50	1200	± 1	± 3
Pt / Pt - 13% Rh (R)	0	1760	0	1760	± 2	± 5
Pt / Pt - 10% Rh (S)	0	1760	0	1760	± 2	± 5
Copper / Constantan (T)	-99	400	-50	400	± 1	± 3
Nicrosil / Nisil (N)	-99	1300	-50	1200	± 1	± 3
Pt - 6% Rh / Pt - 30% Rh (B)	400	1820	400	1820	± 3	± 5
Chromel / Constantan (E)	-99	900	0	800	± 1	± 3
Pt100, 3-wire	-99	850	-50	850	± 0.5 *	± 2.0
Linear 0~20 mA, 4~20 mA, 0~10 V DC	-1999	9999	-1999	9999	± 5 EU	± 20 EU

\* ± 0.1°C in the range -50 to +400 °C

### CONNECTION DIAGRAM



### ORDERING INFORMATION

2238

A	Input type group
0	8 thermocouples, Pt100, 0/4~20 mA
1	0/4~20 mA, 0~10 V DC

Product url : [www.radix.co.in/flp.htm](http://www.radix.co.in/flp.htm)



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