

INPUT : THERMOCOUPLE, MILLIVOLTS



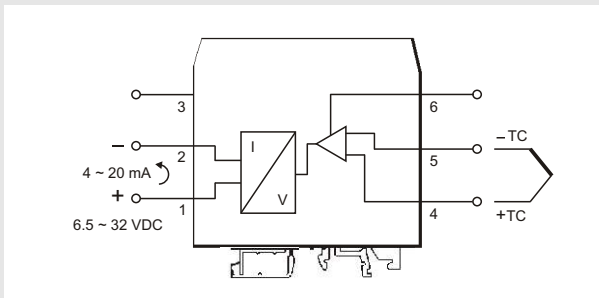
- Solder jumpers for
  - Input type
  - Span
  - Upscale / Downscale
  - 4~20 mA / 20~4 mA
- Multirange : 9 for thermocouple, 10 mV to 50 mV  
9 for millivolts, 10 mV to 50 mV
- Multiinput : J, L, T, K & N inputs or millivolts
- 0.1% voltage linear 4~20 mA output
- Upscale / downscale selectable sensor break detection
- 6.5 V loop drop allows 800 load @ 24 V DC

GENERAL

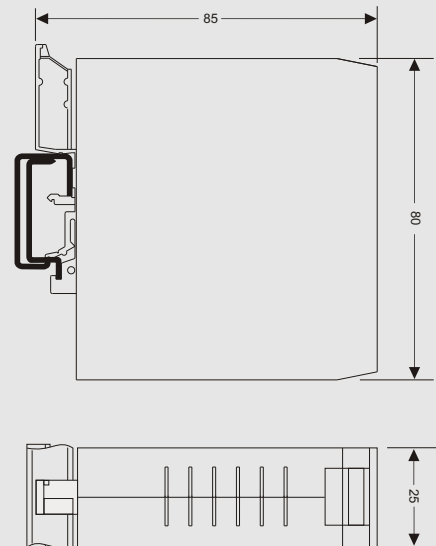
TX1DR is a DIN rail mounted high performance, "all-in-one" 2-wire temperature transmitter. Its high reliability industrial design offers some rare functions, e.g. 4~20 mA or 20~4 mA selection.

TX1DR -TC covers 5 thermocouple types as well as millivolts and has 9 overlapping ranges in C or F. It has a voltage linear output. All selections are made by solder jumpers. 'Fine' ZERO/SPAN potentiometers are provided for calibration.

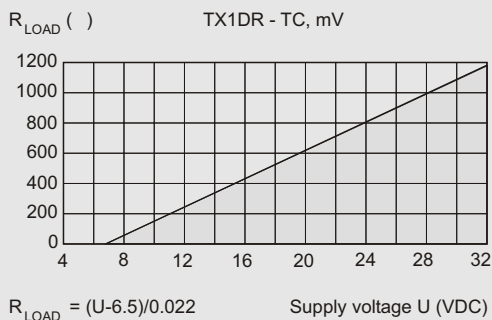
CONNECTION DIAGRAM



ENCLOSURE



OUTPUT LOAD



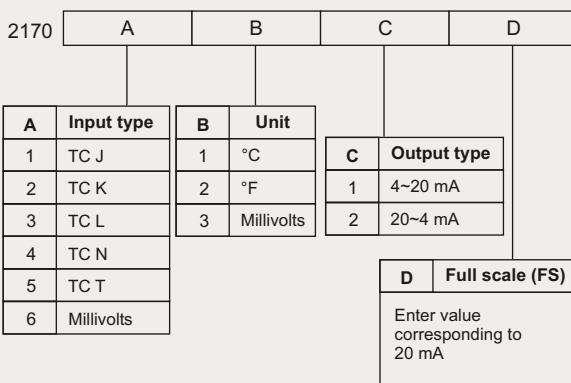
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SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

<p><b>INPUT</b> Input type</p> <p>Input impedance</p> <p><b>MONITORING</b> Sensor break detection Upscale current Downscale current ON LED</p> <p><b>ADJUSTMENTS</b> Zero Span selectable Span, fine adjustment</p> <p><b>OUTPUT</b> Current, selectable Linearity Current limit Permissible load</p> <p><b>ACCURACY</b> Linearity &amp; calibration</p> <p>Cold junction compensation Temperature effect on accuracy Supply voltage / load effect</p>	<p>a) Thermocouple, selectable, type J, L, T, K &amp; N b) Millivolts, selectable &gt; 5 M</p> <p>~ 25 mA ~ 3 mA Provided</p> <p>10% of span 10 to 50 mV, 9 overlapping ranges 10%</p> <p>4~20 mA, 20~4 mA Voltage linear ~25 mA 800 @ 24 VDC, 22 mA</p> <p>0.1% of span + thermocouple non linearity (Error due to thermocouple non-linearity can be significant. It depends on thermocouple type &amp; span) 1 °C ( 2 °F)</p> <p>0.5% of span / 25 °C (45 °F)</p> <p>0.002% of span / V</p>	<p><b>POWER SUPPLY</b> Supply voltage</p> <p><b>ENCLOSURE</b> Material Dimensions Mounting</p> <p>Connection, single/stranded wires</p> <p>Weight Protection</p> <p><b>TEMPERATURE, HUMIDITY</b> Ambient, storage Ambient, operation Relative humidity</p> <p>6.5 to 32 V DC</p> <p>ABS plastic 80(H) x 25(W) x 85(D) mm Snap on for 35 mm DIN rail to DIN 46277 2.5 mm<sup>2</sup>, AWG 14</p> <p>&lt; 200 grams IP 20</p> <p>-20 ~ +85 °C -20 ~ +55 °C 0 ~ 95%</p>
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INPUT, SPAN	
Input selection	Span selection (mV)
TC J / L	10
TC N	15
TC K	20
TC T	25
Millivolts	30
	35
	40
	45
	50

ORDERING INFORMATION



- Examples**
- Input TC K, Range : 0 to 1000 °C, Output : 4~20 mA  
FS = 1000  
A = 2, B = 1, C = 1, D = 1000
  - Input mV, Range : 0 to 25 mV, Output : 20~4 mA  
FS = 25  
A = 6, B = 3, C = 2, D = 25



AN ISO 9001:2000 COMPANY

SALES INQUIRIES

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