Specifications

Inputs: See input types and ranges table below right
Output Range: 4 to 20 mA dc
Zero Adjustment: ±25% mV span centered around 0 mV (or °C)
Accuracy: ±0.1% FS (includes effects of linearity, hysteresis and repeatability)
Frequency Response: 3 dB @ 3 Hz
Ambient Temperature Range: -25 to 85°C (-13 to 185°F)
Storage Temperature Range: -65 to 125°C (-85 to 257°F)
Supply Voltage: 9 to 35 Vdc; 24 Vdc recommended
Max Loop Rs – 8.5V
Resistance: 0.020
Isolation (TX903 only): 500V RMS
Dimensions:
TX901, TX904: 1.90 H x 4.45 cm D (1.75 x 0.75")
TX903, TX905, TX906: 2.9 H x 4.45 cm D (1.13 x 1.75")
(height includes barrier strip)
Weight: 30 g (1 oz); 71 g (2.5 oz) for thermocouple models

Input Types and Ranges

<table>
<thead>
<tr>
<th>Input Type and Model No.</th>
<th>Overall Input Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>J TX901/903</td>
<td>0 to 760°C (0 to 1390°F)</td>
</tr>
<tr>
<td>K TX901/903</td>
<td>0 to 1370°C (0 to 2500°F)</td>
</tr>
<tr>
<td>T TX901/903</td>
<td>0 to 400°C (0 to 750°F)</td>
</tr>
<tr>
<td>E TX901/903</td>
<td>0 to 835°C (0 to 1515°F)</td>
</tr>
<tr>
<td>R TX901/903</td>
<td>0 to 1700°C (0 to 3100°F)</td>
</tr>
<tr>
<td>S TX901/903</td>
<td>0 to 1760°C (0 to 3210°F)</td>
</tr>
<tr>
<td>RTD TX904-1</td>
<td>0 to 260°C (0 to 500°F)</td>
</tr>
<tr>
<td>RTD TX904-2</td>
<td>0 to 538°C (0 to 1000°F)</td>
</tr>
<tr>
<td>mVTX905</td>
<td>4 to 64 mV</td>
</tr>
<tr>
<td>V VTX906-V1</td>
<td>0.04 to 0.64V</td>
</tr>
<tr>
<td>V VTX906-V2</td>
<td>0.4 to 6.4V</td>
</tr>
<tr>
<td>V VTX906-V2</td>
<td>4 to 64V</td>
</tr>
</tbody>
</table>

Note: Factory setting; TX901 Type J 0-500°F, TX903 Type J 0 to 500°F, TX904-1 0 to 300°F, TX904-2 0 to 500°F, TX905 0 to 50 mV.

To Order Visit omega.com/tx900 for Pricing and Details

Model No. Description
TX901 J, K, T, E, R, S thermocouple input, non-isolated
TX903 J, K, T, E, R, S thermocouple input, isolated
TX904-1 100 Ω Pt RTD input (a = 0.00385), non-isolated
TX904-2 100 Ω Pt RTD input (a = 0.00385), non-isolated
TX905 Millivolt input, 4 to 64 mV non-isolated
TX906-V1 Volt input, 0.04 to 0.64V non-isolated
TX906-V2 Volt input, 0.4 to 6.4V non-isolated
TX906-V3 Volt input, 4 to 64V non-isolated
NB1TX901-(* *) NB1 thermocouple probe, 30.5 cm (12") L, ¼” OD, ungrounded junction, 304 SS sheath, with TX901 transmitter
NB1TX903-(* *) NB1 thermocouple probe, 30.5 cm (12") L, ¼” OD, ungrounded, 304 SS sheath, with TX903 transmitter
PRTX904-1 PR-12 RTD probe, 30.5 cm (12") L, ¼” OD, 304 SS sheath, with TX904-1 transmitter
PRTX904-2 PR-12 RTD probe, 30.5 cm (12") L, ¼” OD, 304 SS sheath, with TX904-2 transmitter
TX-SCALED Scaling charge for factory set up of range (specify input type and range from chart above)

* Insert thermocouple type J, K, T or E. Contact our custom engineering department for pricing on R or S thermocouples, which are available by special order. Comes complete with operator’s manual.

Notes: (1) Thermocouple model output proportional to mV output of thermocouple. Not linearized to temperature. (2) For non-isolated units use ungrounded probes. Thermocouple or RTD input simulation required to scale output for a particular range. To order unit scaled by OMEGA specify input type, low end of range, high end of range and °F or °C. Specify: TX-SCALED.

Ordering Example: TX901, non-isolated thermocouple transmitter.