

Miniature RTD (Pt100) Temperature Transmitters

TX92G Series



- ✓ Easy to Mount in Protection Head
- ✓ Fine Zero and Span Adjustments
- ✓ ABS Construction with Watertight Enclosure
- ✓ 4 to 20 mA Output
- ✓ Two-Wire Transmitter
- ✓ Non-Isolated
- ✓ $\pm 0.1\%$ FS Accuracy

OMEGA's miniature TX92G RTD temperature transmitter provides an output current of 4 to 20 mA proportional to the signal of a 2-wire RTD sensor input.

The TX92G is very compact and can be mounted inside many of OMEGA's protection heads. Model PRTXG probes are made by mounting the TX92G transmitter inside the cast iron head of the most popular PR-12 Series probes (see ordering chart).

Note: RTD leads should be kept as short as possible.

Specifications

Ranges:

- 40 to 49°C (-40 to 120°F),
- 18 to 93°C (0 to 200°F),
- 18 to 149°C (0 to 300°F),
- 18 to 260°C (0 to 500°F),
- 18 to 399°C (0 to 750°F),
- 18 to 538°C (0 to 1000°F)

Input Type: 2-wire Pt100 Ω

($a=0.00385$)BS1904 and DIN 43760

Zero/Span Adjustment Range: $\pm 25\%$

Current Output Limits: 3.5 to 29.5 mA

Max Loop Resistance:

($V_s - 8.2 \text{ V}$)/ $0.02 \text{ A} = \Omega$

Range Codes

TX92G RTD	Range
-1	-40 to 49°C (-40 to 120°F)
-2	-18 to 93°C (0 to 200°F)
-3	-18 to 149°C (0 to 300°F)
-4	-18 to 260°C (0 to 500°F)
-5	-18 to 399°C (0 to 750°F)
-6	-18 to 538°C (0 to 1000°F)



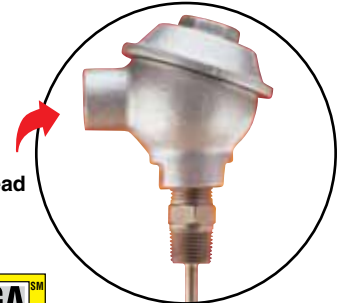
TX90-DIN
DIN rail mounting
adaptor
shown slightly
smaller than
actual size.



TX92G-2
shown actual
size.

Also fits in the following protection heads: NB1, NB3, NB5, NB7, NB9, NB10, NB12 and others. See Section B for details.

Available built into industrial protection head probes style PRTXG.



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

Dimensions: 27 H x 44.5 mm Dia (1.06 x 1.75") (height includes terminal strip)
Weight: Approx 30 g (1.1 oz)

Accuracy (at 25°C): $\pm 0.1\%$ ($<0.3^\circ\text{C}$, FS)

Ambient Power Supply: 9 to 42 Vdc; 24 Vdc recommended

Load Capability: 600 Ω max @ 24 Vdc

Operating Temperature Range:

-40 to 85°C (-40 to 185°F)

Storage Temperature Range:

-50 to 95°C (-58 to 203°F)

To Order

Model Number	Description
TX92G-(*)	RTD transmitter (100 Ω , Pt 0.00385)
PRTXG-(*)	PR-12 RTD probe, 300 mm (12") L, 6 mm ($\frac{1}{4}$ ") OD, 304 SS sheath, with TX92G transmitter with cast iron head**

Accessories

Model No.	Description
PSR-24S	Regulated power supply, 24 Vdc, 400 mA, screw terminal
PSR-24L	Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads
PSR-24L-230	Regulated power supply, 24 Vdc, 400 mA, stripped leads, 230 Vac input, CE
PSU-93	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX82B	Process loop-powered indicator
TX90-BR	Mounting bracket
RT	1.2 m (48") mounting track for TX90-BR
TX90-DIN	DIN rail mounting adaptor
RAIL-35-2	2 m (6.5') section 35 mm DIN rail for TX90-DIN

* Insert range code from chart on the left. Comes complete with operator's manual.

** Other head materials and probe lengths available.

Ordering Example: TX92G-2, RTD transmitter with -18 to 93°C range.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.

For complete information on PRTXG and PR-12 industrial RTD probes and other styles of RTD probes, please visit us online.