

Miniature Temperature Transmitters

Thermocouple, RTD or Voltage Input

TX93
Starts at
\$97



- ✓ Ultra-Low Profile Design Only 19 mm (3/4") High (Including Terminal Strip)
- ✓ 4 to 20 mA Output
- ✓ ±0.1% FS Accuracy
- ✓ Non-Isolated
- ✓ Mounts in Protection Head

Models TX93, TX94 and TX95 transmitters can eliminate long runs of costly field wiring in a variety of applications. A stable 4 to 20 mA output signal is provided proportional to the transmitters specific input type and calibrated temperature range (see Range Code table below). Adjustability of ±25% for zero and span is provided to facilitate some rangeability.



The transmitted signal eliminates noise pickup, voltage drops, multiple cold junction errors and requires only a twisted pair of copper wire for loop connections. TX93, TX94 and TX95 are ultra-low profile transmitters at an economical price.

MOST POPULAR RANGES HIGHLIGHTED!

| To Order (Specify Model Number) | | |
|---------------------------------|-------|---|
| Model Number | Price | Description |
| TX93-* | \$97 | Thermocouple transmitter (J,K,T, or E) |
| TX94-* | 105 | RTD transmitter (100 Ω Pt, alpha = 0.00385) |
| TX95-* | 97 | Voltage input transmitter |
| NB1TX93-* | 146 | NB1 thermocouple probe, 300 mm (12") L, 6 mm (1/4") OD, ungrounded junction, 304 SS sheath, with TX93 transmitter |
| PRTX94-* | 195 | PR-12 RTD probe, 300 mm (12") L, 6 mm (1/4") OD, 304 SS sheath, with TX94 transmitter |

* Insert range code from chart below.
Comes with complete operator's manual.

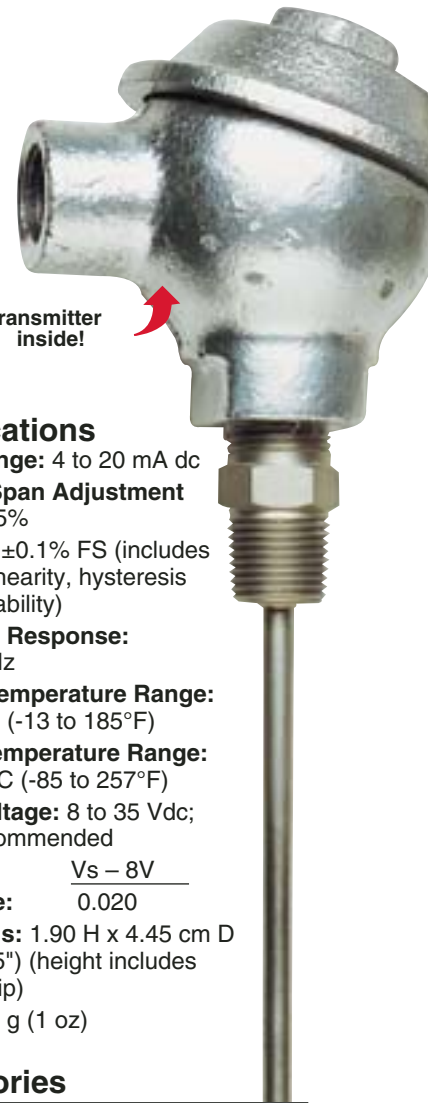
Ordering Example: TX93-J4, Type J, transmitter with -18 to 260°C (0 to 500°F) range, \$97.

Range Codes

| Model Number | | | | | | Range °C (°F) |
|--------------|----|----|----|------|---------|------------------------|
| TX93 | | | | TX94 | TX95 | |
| J | K | T | E | RTD† | Voltage | |
| J1 | | | E1 | 1 | | -40 to 49 (-40 to 120) |
| J2 | K2 | T2 | E2 | 2 | | -18 to 93 (0 to 200) |
| J3 | K3 | T3 | E3 | 3 | | -18 to 149 (0 to 300) |
| J4 | K4 | T4 | E4 | 4 | | -18 to 260 (0 to 500) |
| J5 | K5 | T5 | E5 | 5 | | -18 to 399 (0 to 750) |
| J6 | K6 | | E6 | 6 | | -18 to 538 (0 to 1000) |
| | | | | | V1 | 0 to 60 mV dc |
| | | | | | V2 | 0 to 10 Vdc |

† 2-lead RTD configuration

Notes: (1) Thermocouple Models output proportional to mV output of thermocouple. Not linearized to temperature. (2) Non-Isolated unit for use with ungrounded probes.



Specifications

Output Range: 4 to 20 mA dc
Zero and Span Adjustment Range: ±25%

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: 8 to 35 Vdc; 24 Vdc recommended

Max Loop $V_s - 8V$

Resistance: 0.020

Dimensions: 1.90 H x 4.45 cm D (0.75 x 1.75") (height includes terminal strip)

Weight: 30 g (1 oz)

Accessories

| Model No. | Price | Description |
|-------------|---------|---|
| TX90-DIN | \$27.50 | DIN rail mounting adaptor |
| RT | 23 | 1.2 m (48") mounting track |
| TX90-BR | 18 | Mounting track mounts up to 2 transmitters of the TX90 series |
| PSR-24S | 60 | Regulated power supply, 24 Vdc, 400 mA, screw terminal |
| PSR-24L | 60 | Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads |
| PSR-24L-230 | 60 | Regulated power supply, 24 Vdc, 400 mA, stripped leads, 230 Vac input, CE |
| PSU-93 | 40 | Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal |
| TX82B | 150 | Process loop indicator |
| RAIL-35-2 | 15 | 2 m (6.5') section 35 mm DIN rail |





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