



1000 OHM RTD RANGEABLE TRANSMITTER W/DISPLAY MODEL T91U-XTD

DESCRIPTION

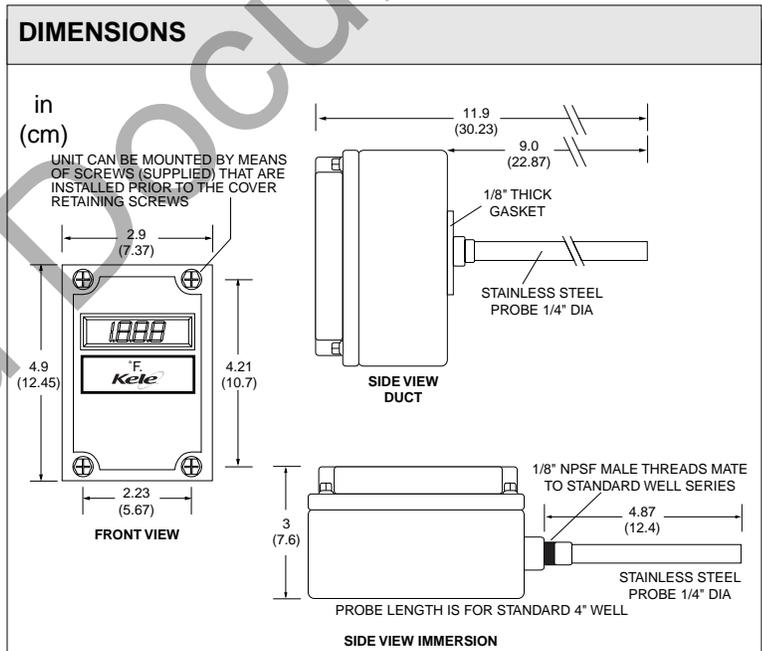
The **T91U** is a field rangeable two-wire, 4-20 mA RTD transmitter designed for use with **Type 91** 1000 Ω Platinum RTD Sensors. The transmitter is available in three standard ranges, or can be set for any range between -30° to 250°F (-34° to 121°C) with a minimum span of 40°F (22°C).

To adjust the **T91U**, set the DIP switches to match the desired range and use the zero and span pots to fine tune. (A high accuracy digital ohm meter and decade box are required.)

The **XTD** display option is a 3 1/2 digit LCD indicating the temperature range of the transmitter. It is factory calibrated to the transmitter output range.

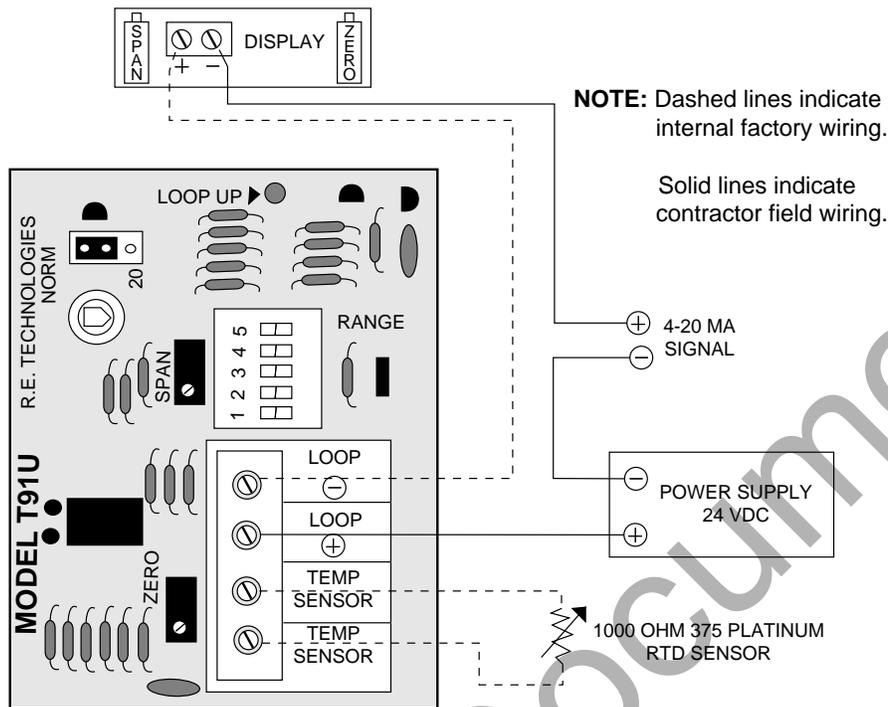
FEATURES

- Dip switch rangeable
- Loop calibration test signal
- Low cost
- Snap-track mounting
- Loop power LED indication
- 1/2" LCD digital display, 3 1/2 digits



| SPECIFICATIONS | |
|--|--|
| Sensor input | 1000 Ω platinum TCR 0.00375 Ω/Ω/°C |
| Configuration | Two-wire, loop-powered |
| Rangeability limits T91U | -30° to 250°F (-34° to 121°C) Minimum span of 40°F (22°C) |
| Output | 4-20 mA |
| Display option (XTD) | 3 1/2 digit LCD |
| Output limit | 25 mA (sensor leads open) |
| Loop calibration output | 20 mA ±0.2% |
| Supply voltage | 24 VDC, one power supply may power multiple units |
| Max impedance | 375 Ω at 24 VDC w/display |
| Ambient operating temp | 0° to 140°F (-18° to 60°C) |
| Humidity | 0-95% noncondensing |
| Accuracy | 0.1°F or 0.2% of span |
| Dimensions | 2.9"W x 3"D x 4.9"H (7.37cm x 7.6cm x 12.5cm) |
| NOTE: The T91 is field rangeable. The XTD is factory calibrated only it is recommended that this unit be sent to the factory for any recalibration. | |

WIRING



ORDERING INFORMATION

| MODEL | DESCRIPTION |
|-------|--|
| T91U | 4-20 mA Rangeable RTD Transmitter Standard Rangeability |
| | RANGE |
| 2 | -20° to 140°F (-29° to 60°C) |
| 3 | 0° to 100°F (-18° to 38°C) |
| 4 | 30° to 240°F (-1° to 116°C) |
| XR† | Special range (See previous page for rangeability limits) |
| | SENSOR TYPE |
| D | ST-D91-XW Duct Sensor* |
| W | ST-W91-XW Immersion Sensor* with well |
| XTD** | Digital display option for (D) Duct or (W) immersion sensors |

T91U - 2 - D - XTD **Example: T91U-2-D-XTD Transmitter with range of -20° to 140°F (-29° to 60°C) mounted and wired in duct sensor with display**

†Indicate at time of order

*Includes sensor mounted and wired

** Engineering plate is in Deg F. If Deg C is needed, indicated at time of order.