# TEL-TRU MANUFACTURING COMPANY

# DIGI-TEL TEMPERATURE TRANSMITTER

*The Tel-Tru Digi-Tel Temperature Transmitter offers maximum flexibility and rugged durability, for use in a broad range of industrial applications, through a modular fit with Tel-Tru Digi-Tel Sensor Probes and Display Modules. Built for accuracy and versatility, the transmitter offers field selection of factory-scaled temperature ranges, as well as RMI/RFI protection.*

## ➤ SPECIFICATIONS:

### Signal:

**Input:** Pt 1000

**Connection:** 2 wire

**Output:** 4 to 20 mA

**Upscale/downscale break:** 21.5 to 3.6 mA

**Supply voltage:** 8 to 35 Vdc 24 recommended

**Zero and Span adjustment:**
- 16-position dipswitch for range selection
- 17 Factory scaled ranges from -75°F to 1200 °F

**Accuracy:** See range chart (includes effect of linearity, hysteresis and repeatability)

**Calibration:** Traceable to NIST

**Protection:**
- Hardened to EMI/RFI and ESD
- Reverse Polarity
- Over-voltage
- Short circuit protection

### Environmental:

**Operating temperature:** -40°F to 185°F (-40°C to 80°C)

**Storage temperature:** -50°F to 250°F (-46°C to 120°C)

**Protection:** Warranted to NEMA 4/IP65

### Non-Isolated

FM
*Approval Pending*

*World-Class Instruments* *Since 1916*

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## ➤ SPECIFICATIONS *(Cont.)*:

**Mechanical:**

**Material:** Heavy Duty Housing: 303 Stainless Steel 1¼" Hex

**Connections:** Modular fit with Tel-Tru Digi-Tel sensor probes and Display modules

**Electrical connection:** Mini Din 43650C (Hirschmann type)

**Weight:** 15 ounces

**Dimensions:** 4.75 x 1.25"

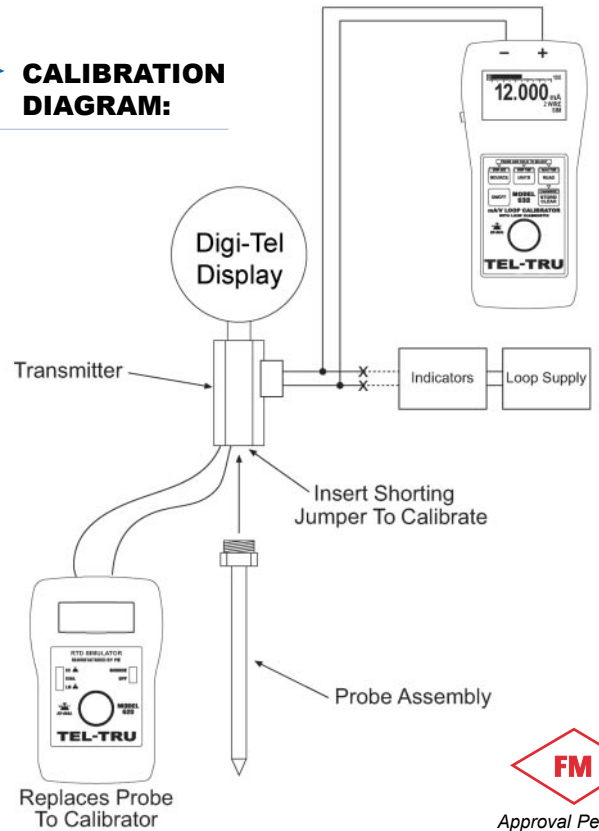## ➤ MODULAR DESIGN FOR USE WITH:

• Tel-Tru Digi-Tel Thermometer Modules and Sensor Probes

• Digi-Tel Sensor probes only

• Tel-Tru Direct Mount or Remote Mount Configurations

*Refer to the Tel-Tru Digital Thermometers brochure*

## ➤ TEMPERATURE RANGES

| Temperature Ranges User Selectable | Accuracy | Dip Switch Position | Meter Reading |
|---|---|---|---|
| -80/120 F | ± 0.25% | Position 0 | 4.5mA |
| -40/160 F | ± 0.25% | Position 1 | 5.5mA |
| 25/125 F | ± 0.25% | Position 2 | 6.5mA |
| 0/250 F | ± 0.25% | Position 3 | 7.5mA |
| -60/40 C | ± 0.25% | Position 4 | 8.5mA |
| -40/80 C | ± 0.25% | Position 5 | 9.5mA |
| 0/120 C | ± 0.25% | Position 6 | 10.5mA |
| 0/160 C | ± 0.25% | Position 7 | 11.5mA |
| -75/750 F | ± 0.10% | Position 8 | 12.5mA |
| 0/400 F | ± 0.10% | Position 9 | 13.5mA |
| 50/550 F | ± 0.10% | Position A | 14.5mA |
| 150/750 F | ± 0.10% | Position B | 15.5mA |
| -60/400 C | ± 0.10% | Position C | 16.5mA |
| 0/250 C | ± 0.10% | Position D | 17.5mA |
| 0/300 C | ± 0.10% | Position E | 18.5mA |
| -75/1200 F or -60/650 C | ± 0.10% | Position F | 19.5mA |

## ➤ CALIBRATION DIAGRAM:

Digi-Tel Display

Transmitter

Indicators   Loop Supply

Insert Shorting Jumper To Calibrate

Probe Assembly

Replaces Probe To Calibrator

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## ➤ HOW TO ORDER:

To order the Digi-Tel Temperature Transmitter, use Order Code **DTTT-1**

## ➤ INSTRUCTIONS:

Instructions for range selection and product calibration are shipped with the unit, and are also available online at **http://www.teltru.com/catalogs.asp**

**Tel-Tru Manufacturing Company**
408 St. Paul St., Rochester, New York 14605 USA
Phone: 585.232.1440 • 800.232.5335 • Fax: 585.232.3857 • E-mail: info@teltru.com • Web: www.teltru.com

**MADE IN USA**

Catalog DTTT904