



TEL-TRU MANUFACTURING COMPANY

RTD TEMPERATURE TRANSMITTER

MODEL TT111



PRODUCT FEATURES:

- High Accuracy ($\pm 0.1\%$)
- 2-wire loop powered 4-20mA output
- Linearized output to temperature
- Input RTD Pt100 with 3-wire compensation
- Analog design, potentiometer adjustable
- Factory calibrated fixed ranges
- Metal housing
- Fits standard connection heads

DESCRIPTION:

The TT111 Series analog 2-wire, or loop powered, temperature transmitters offer the most effective price/performance ratio in the industry. Factory calibrated for fixed range, they provide a 4-20mA output linearized to temperature for Pt100. The wide temperature range makes the TT111 an excellent choice for temperature signal transmission.

Precision 20-turn potentiometers allow fine adjustment of ZERO and SPAN. TT111 transmitters are high quality, very accurate, completely linearized and fit into industry standard connection heads.

SPECIFICATIONS:

@Vnom = 24VDC,
T.ambient = 25°C, Span nom. = 100°C

Pt100, 3-wire, $\alpha = 0.00385$, DIN EN 60751

4-20 mA loop powered,
linear to temperature

$\pm 0.01\%$ FS

12-32 VDC, polarity protected

0.02%/V

$\pm 0.01\%$ FS/°C

$\pm 0.01\%$ FS/°C

$\pm 0.05\%$ FS/year

0.8 mA

500 ohm max.

0.1% FS (includes effects of linearity,
hysteresis and repeatability)

20-turn potentiometer,
 $\pm 10\%$ for zero and span

Rmax. = $[V_{supply} - 9VDC] / 20mA$

Over-scale limit (27.0 mA) or
Under-scale limit (2.2 mA)

30 seconds

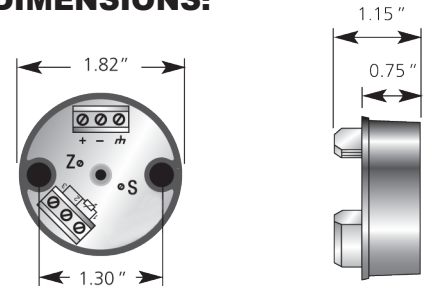
-40°C.....80°C (-40°F...176°F)

-40°C.....80°C (-40°F...176°F)

Die Cast Zinc, Enamel Painted

1.82" dia. x 1.15" H.

DIMENSIONS:



Input:

Output:

Linearization:

Power Supply:

Supply Effect:

Zero Drift:

Span Drift:

Long Term Drift:

Excitation Current RTD:

Sensor Lead Resistance RTD:

Accuracy:

Span/Zero Adjustment:

Maximum Loop Resistance:

Open Circuit Detection:

Warmup:

Ambient Operating Temperature:

Storage Temperature:

Housing Material:

Housing Dimensions:

Input	Temperature Ranges		Code
	C°	F°	
Pt100 3-wire (A)	C°	F°	
•	-50/+50	(-58/+122)	73
•	0/+50	(32/+122)	75
•	0/+100	(32/+212)	76
•	0/+200	(32/+392)	78
•	0/+300	(32/+572)	80
•	0/+400	(32/+752)	81
•	0/+600	(32/+1112)	CW

*Custom ranges available - 10 piece min/range
Contact factory with specific range requirement

HOW TO ORDER:

Model	Input Code	Range Code
TT111	A	76

Ex.: Connection Head Type Fixed Range RTD
Temperature Transmitter, Type Pt100, 0/+100°C
(32/+212°F)

Information furnished by Tel-Tru is believed to be accurate and reliable. However, no responsibility is assumed by Tel-Tru for its use. Specifications subject to change without notice.

www.teltru.com

World-Class Instruments

Since
1916

TT11111