



TEL-TRU MANUFACTURING COMPANY

RTD TEMPERATURE TRANSMITTER

MODEL TT211



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
- DIN Rail-Mounted

DESCRIPTION:

The TT211 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 TT211 an excellent choice for temperature signal transmission.

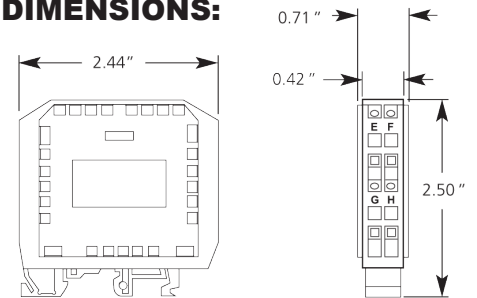
Precision 20-turn potentiometers allow fine adjustment of ZERO and SPAN. TT211 transmitters are high quality, very accurate and feature completely linearized output to temperature. They are DIN rail-mounted conforming to DIN standard 46277 package which is very compact.

SPECIFICATIONS:

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

Input:	Pt100, 3-wire, $\alpha=0.00385$, DIN EN 60751
Output:	4-20 mA loop powered, linear to temperature
Linearization:	$\pm 0.01\%$ FS
Power Supply:	12-32 VDC, polarity protected
Supply Effect:	0.02%/V
Zero Drift:	$\pm 0.01\%$ FS/°C
Span Drift:	$\pm 0.01\%$ FS/°C
Long Term Drift:	$\pm 0.05\%$ FS/year
Excitation Current RTD:	0.8 mA
Sensor Lead Resistance:	500 ohms max.
Accuracy:	0.1% FS (includes effects of linearity, hysteresis and repeatability)
Span/Zero Adjustment:	20-turn potentiometer, $\pm 10\%$ for zero and span
Maximum Loop Resistance:	$R_{max} = [V_{supply} - 9VDC] / 20mA$
Open Circuit Detection:	Over-scale limit : 27.0mA, Under-scale limit : 2.2mA
Warmup:	30 seconds
Ambient Operating Temperature:	-40°C.....80°C (-40°F...176°F)
Storage Temperature:	-40°C.....80°C (-40°F...176°F)
DIN Rail:	DIN 46277
Housing Material:	Polyamide
Housing Dimensions:	2.44" W x 2.50" H x 0.71" D

DIMENSIONS:



Input	Temperature Ranges		Code
	C°	F°	
Pt100 3-wire (A)			
•	-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
•	0/+800	(32/+1472)	CX

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

HOW TO ORDER:

Model	Input Code	Range Code
TT211	A	80

Ex.: DIN Rail-mounted Fixed Range RTD Temperature Transmitter, Type Pt100, 0/+300°C (32/+572°F)

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