



# TEL-TRU MANUFACTURING COMPANY

## XTRC-1530 UNIVERSAL HART®-COMPATIBLE TRANSMITTER

XTRC-1530 is a modern, HART temperature transmitter developed to meet the highest standards of accuracy and reliability. This universal transmitter is compatible with RTD, thermocouples, voltage and potentiometer sensors. It is fully compatible with HART 7 and offers extended diagnostic information, for example device error, sensor and wiring conditions.

XTRC-1530 can be configured using the USB capable configuration kit (sold separately).

### FEATURES:

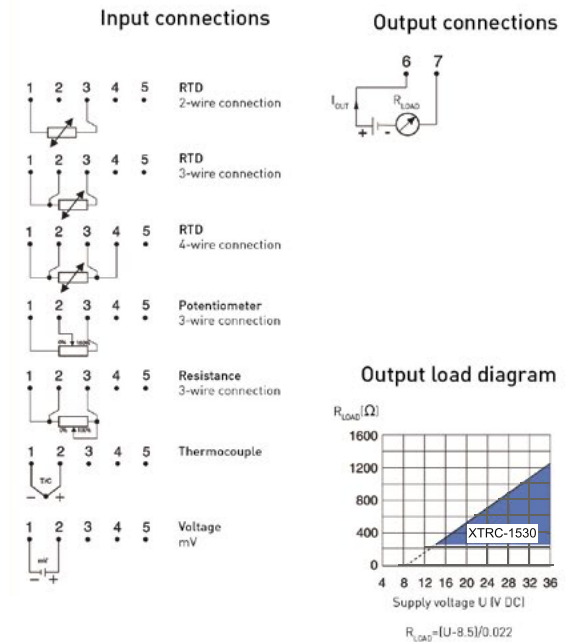
- High accuracy and long term stability
- Accepts RTD, T/C, mV and ohm
- Sensor error and system (sensor/transmitter) error correction
- 50-point Customized Linearization and Callendar-Van Dusen
- Rugged design tested for 10 g vibrations
- Configuration via USB, without external power
- Runtime counter - hour counter for elapsed operational time

### SPECIFICATIONS:

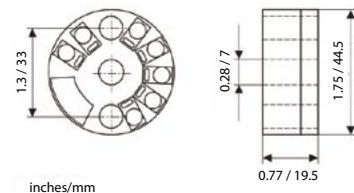
<b>Input RTD</b>	2-, 3-, 4-wire connection
Pt100 ( $\alpha = 0.00385$ )	-328/1562°F or -200/850°C
PtX $10 \leq X \leq 1000$ ( $\alpha = 0.00385$ )	Upper range depending on X-value
Pt100 ( $\alpha = 0.003916$ )	-328/1562°F or -200/850°C
Ni100 <sup>1</sup> , Ni120 <sup>2</sup>	-76/482°F or -60/250°C
Ni1000 <sup>1</sup>	-58/356°F or -50/180°C
Cu10 <sup>3</sup>	-58/392°F or -50/200°C
<b>Input resistance / potentiometer</b>	0 to 10,000 $\Omega$ / 100 to 10,000 $\Omega$
<b>Input thermocouples</b>	Types B, C, D, E, J, K, N, R, S, T
<b>Input mV</b>	-10 to 1,000 mV
<b>Sensor failure</b>	Upscale ( $\geq 21.0$ mA) or downscale ( $\leq 3.6$ mA) action
<b>Adjustments - zero</b>	Any value within range limits
<b>Adjustments - minimum spans</b>	
Pt100, Pt1000, Ni100, Ni1000	18°F or 10°C
Potentiometer	10 $\Omega$
T/C, mV	2 mV
<b>Output</b>	4-20 / 20-4 mA, temperature linear
<b>Operating temperature</b>	-40/185°F or -40/85°C
<b>Galvanic isolation</b>	1500 VAC, 1 min
<b>Power supply</b>	8.5...36.0 VDC
<b>Intrinsic safety</b>	Call for information on ATEX, IECEx, FM US/CA models
<b>Typical accuracy</b>	$\pm 0.08^\circ\text{C}$ or $\pm 0.08\%$ of span
<b>Connection head</b>	DIN B or larger



### CONNECTIONS



### DIMENSIONS:



### HOW TO ORDER

XTRC-1530 Transmitter [TT92XXXX](#)  
 XTR-CFG PC configuration kit (USB-conn.) [TTXTRCFK](#)  
 XTR-BT Bluetooth® kit [TTXTRBTK](#)

<sup>1</sup>IEC 60751,  $\alpha = 0.00385$  and Pt100 acc. to JIS 1604,  $\alpha = 0.003916$

<sup>2</sup>DIN 43760

<sup>3</sup>Temperature, resistance or voltage linear, customized linearization possible



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XTRC1530

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