



TEL-TRU MANUFACTURING COMPANY

XTRC-1202 PC-PROGRAMMABLE TRANSMITTER FOR PT100 INPUT

The XTRC-1202 is a digital, easy-to-use temperature transmitter for measurement with a Pt100 resistance sensor. Its robust design and high quality gives excellent performance and accuracy also under harsh conditions. XTRC-1202 combines competitive cost with easy and user friendly functionality and reliable accuracy during the lifetime.

FEATURES:

- Robust terminals with test connections
- Input: Pt100 in 3-wire connection
- PC configurable measuring ranges without need for calibration
- Temperature linear output
- Very short response time
- Excellent EMC immunity
- Configuration without external power
- Easy-to-use Windows configuration software
- USB communication
- Withstands vibrations up to 10 g
- Runtime counter
- Only 0.72 inch / 19.5 mm high

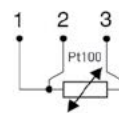
SPECIFICATIONS:

Input RTD	3-wire connection
Pt100 ($\alpha = 0.00385$)	-58/1562°F or -50/850°C
Sensor failure	Upscale (≥ 21.0 mA) or downscale (≤ 3.6 mA) action
Adjustments	
Zero adjustment	Any value within range limits
Minimum span	36°F or 20°C
Sensor error compensation	$\pm 10\%$ of span for span < 180°F/100°C otherwise $\pm 18^\circ\text{F} / \pm 10^\circ\text{C}$
Output	4...20 mA, temperature linear
Adjustable filtering level	0.13 to 54 s, (default 0.9 s)
Response time	< 50 ms
Environment conditions	
Ambient temperature	-40/185°F or -40/85°C
Humidity	0...98% RH (non-condensing)
Vibrations	Acc. to IEC 60068-2-6, test Fc, 10...2000 Hz, 10 g
EMC	Directive: 2014/30/EU Harmonized standards: EN 61326-1, EN 61326-2-3
Galvanic isolation	No
Power supply	6.0...32.0 VDC
Intrinsic safety	Call for information on ATEX, IECEx, FM US/CA models
Accuracy	Max of $\pm 0,1\text{K}$ or $\pm 0,1\%$ of span $\pm 0,1\%$ of span per year
Connection head	DIN B or larger
Weight	0.07 lb / 32 g
Protection, housing / terminals	IP 65 / IP 00



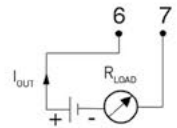
CONNECTIONS

Input connections

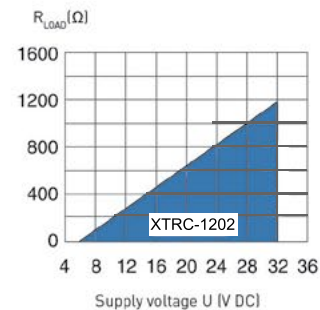


Pt100 3-wire connection

Output connections



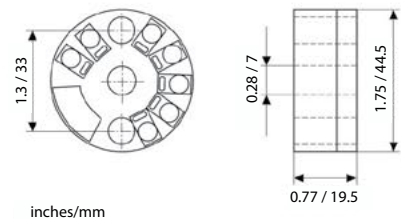
Output load diagram



$$R_{LOAD} = (U - 6) / 0.022$$

$$R_{LOAD} = (U - 8) / 0.022$$

DIMENSIONS:



HOW TO ORDER

XTRC-1202 Transmitter [TT31XXXX](#)
 XTR-CFG PC configuration kit (USB-conn.) [TTXTRCFK](#)



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XTRC1202
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