▶ Designed for simplicity

KROHNE

▶ measure the facts

OPTITEMP TT 12 – Reliable transmitters for Pt100/Pt1000 and Thermocouple

The OPTITEMP TT 12 transmitter family consists of OPTITEMP TT 12 TC that works with thermocouple sensors and OPTITEMP TT 12 RTD that works with Pt100 and Pt1000 sensors.

Our modern transmitter family have high reliability and great performance. External influences such as ambient temperature, vibration, moisture and EMC interference have minimal influence on the measurement result, thanks to the robust design.

What characterizes OPTITEMP TT 12 is simplicity. You can easily configure the transmitters wirelessly via NFC™ with your smartphone or tablet. There is no need for expensive configuration tools or fixed workstations for transmitter configuration.

Great performance at an attractive price makes the OPTITEMP TT 12 an excellent choice.

N NFC

OPTITEMP TT 12 C TC   OPTITEMP TT 12 R TC

Compact design for easy installation

What stands out with the OPTITEMP TT 12 is its compact design. The head-mounted variant is only 10.5 mm high and can easily be installed in all DIN B connection heads. The rail mounted variant is only 6,3 mm wide, allowing you to save valuable space in your cabinet.

Highest quality to make you feel safe

The OPTITEMP TT 12 is built on KROHNE's latest transmitter platform to leverage efficiencies and to meet the customer's need for digitalization. By building on an already established and well-proven platform, we ensure that the transmitters meet KROHNE's trademark of quality.

Get full control of your configurations

In the OPTICHECK Temperature Mobile app, you can easily save and share configurations with your colleagues. You can also generate configuration protocols in PDF format for easy documentation. Configuring a transmitter has never been easier.

Technical Data

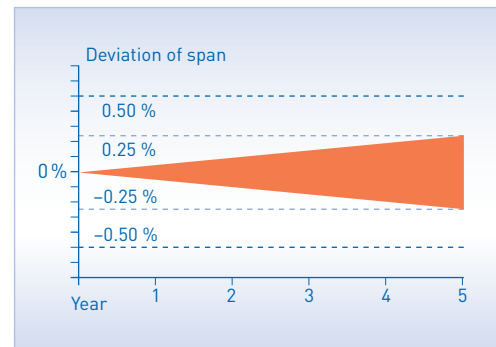| OPTITEMP TT 12	RTD	TC
Input	Pt100, Pt1000	Thermocouple B, E, J, K, N, R, S and T
Output	4-20 mA , temperature linear, non galvanic seperated	
Measuring range	−200...+850 °C -328...+1562 °F	Type J: -210...+1200 °C -346...+2192 °F Type K, N: -270...+1300 °C -454...+2372 °F Type R, S: -50...+1750 °C -58...+3182 °F Type B,E, T: see data sheet
Cold Junction compensation	n/a	Internal or fixed
Typical accuracy (Maximum of)	±0,15 K or ±0,15 % of span	Type E, J, K, N: ±1 K or ±0,2 % of span Type B, R, S, T: ±2 K or ±0,2 % of span
Sensor error	NAMUR NE43	
Adjustments – Zero point	Any value within range limits	
Adjustments – min.spans	20 °C / 36 °F	See data sheet or app
Power supply (Up)	6...32 VDC	
Permissible load	(Up-6 V)/0,022 A, 818 Ω @ 24 V	
Ambient temperature	−40...+85 °C / -40...+185 °F	
Humidity	0...98% RH (non-condensing)	
Vibration	IEC 60068-2-6, 10 g (APAQ C130), 5g (APAQ R130)	
EMC	EN 61326-1 and EN 61326-2-3	
Long-term stability	Max. drift ±0,05 % of span/year	
Adjustable filtering level	0,4 to 26 s	
Configuration	App: OPTICHECK Temperature Mobile*	
Wireless connectivity	NFC™	

Contact

Head Office

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47058 Duisburg
Germany

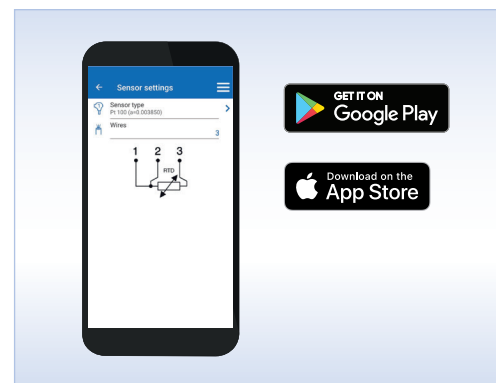Tel.: +49 203 301 0
Fax: +49 203 301 103 89
temperature@krohne.com

Reliable over time

Minimal drift of ±0.05°C or ±0.05% of span/ year reduces the need for calibration.

Configuration via the app
OPTICHECK Temperature Mobile

Configure the transmitter wirelessly without supply voltage and cables.

Copy and save time

Copy and paste a configuration to several transmitters in just a few seconds.

Available for free download on App Store and Google Play Store

Download App

www.krohne.com