

CIP Temperature



The CIP (Clean In Place) temperature sensor is designed for use where hygiene is key. The sanitary fittings are ideal for food and beverage manufacturing, the pharmaceutical industry, and chemical processing where product contamination and sensor corrosion are concerns.

- ◆ High accuracy
- ◆ Food safe
- ◆ Easy installation

Technical Data

Sensor type: Pt100 RTD

Accuracy: +/- 0.11°C, IEC class AA

Element connection: 3-wire single

Immersion length: see ordering data

Sanitary cap size: 2" O.D.

Sanitary cap style: 16 AMP cap, 316 stainless steel

Sheath material: 316 stainless steel

Sheath diameter: 1/4"

Support tube length: 3"

Operating temperature: 0...200°C

Enclosure: polypropylene head

Termination connection type: terminal block or programmable temperature transmitter

Industry Usage

Food processing, Dairy, Pharmaceutical, Chemical processing

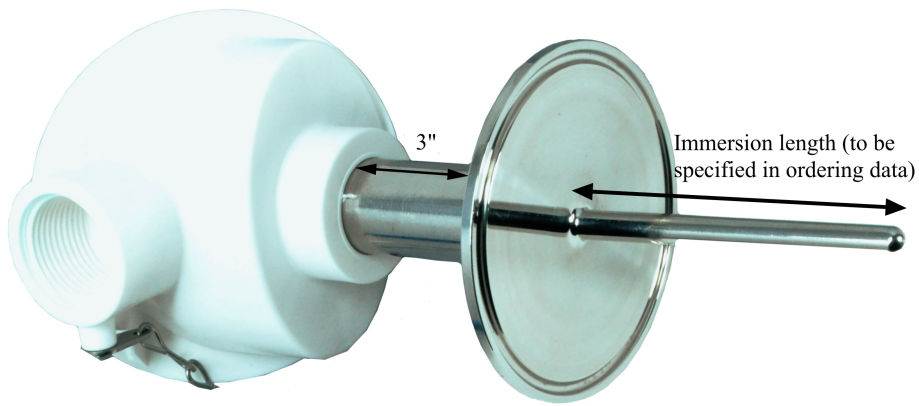
ENERCOP instruments ltd

170 Wilkinson Road, Unit 13, Brampton, ON, L6T 4Z5 Canada

Tel: 416-231-5335, Toll free: 1-800-363-7267

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Dimensions



Ordering Data

TS-CIP-2-(immersion length)
in inches

ie. TS-CIP-2-3: CIP temperature sensor with a 3" immersion

TT-CIP-2-(immersion length)/(temp transmitter range)
in inches

ie. TT-CIP-2-2/50F180F: CIP temperature sensor with a 2" immersion and a temperature transmitter with a temperature range of 50...180°F

TXR420: Digital Temperature Transmitter



The TXR420 is a digital temperature transmitter and can be PC programmed to be used with a Pt100 RTD at various temperature ranges. This device is protected against reverse polarity and has sensor fault detection built in.

- ◆ High accuracy
- ◆ Unaffected by EMI
- ◆ PC programmable

Technical Data

Power supply: 24 VDC (10...35 VDC)

Output signal: 4...20mA or 20...4mA

Connection type: 2-wire

Sensor type: Pt100 RTD

Accuracy: 0.1%

Min. Input current: <3.5mA

Current limit: <23mA

Switch on delay: 4 sec

Response time : 2 sec

Influence of power supply: +/- 0.01%/V

Max. load: ($V_{ref} - 10 \text{ V}$) / 0.022 Amp

Linearity error: <0.1%

Temperature drift: 0.1%/°C

Damping (programmable): 0...60 sec

Electrical connection: Plug connection as per DIN EN 175301-803-A

Ambient temperature: -40...85°C

Protection class: IP 66/ IP 00

Climatic class: Cl. C, EN 60654-1

EMC immunity: Acc. to EN 61326-1

Vibration protection: 4g/ 2...150Hz

Approval: CE

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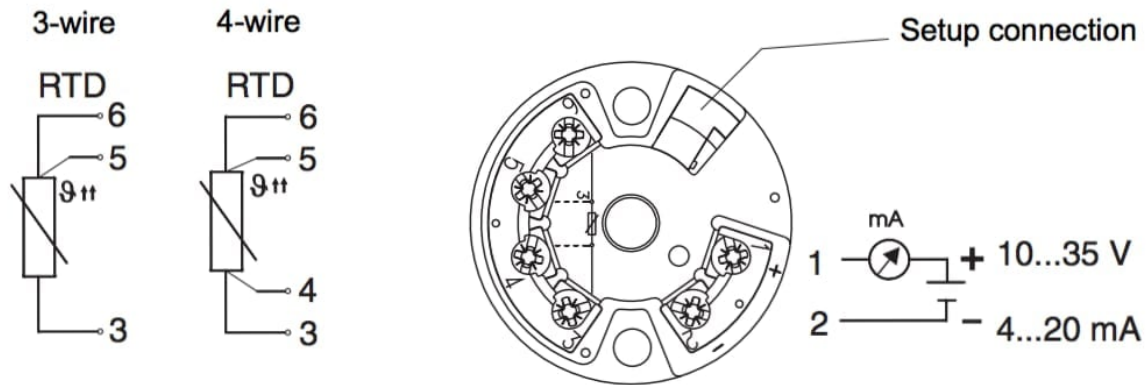
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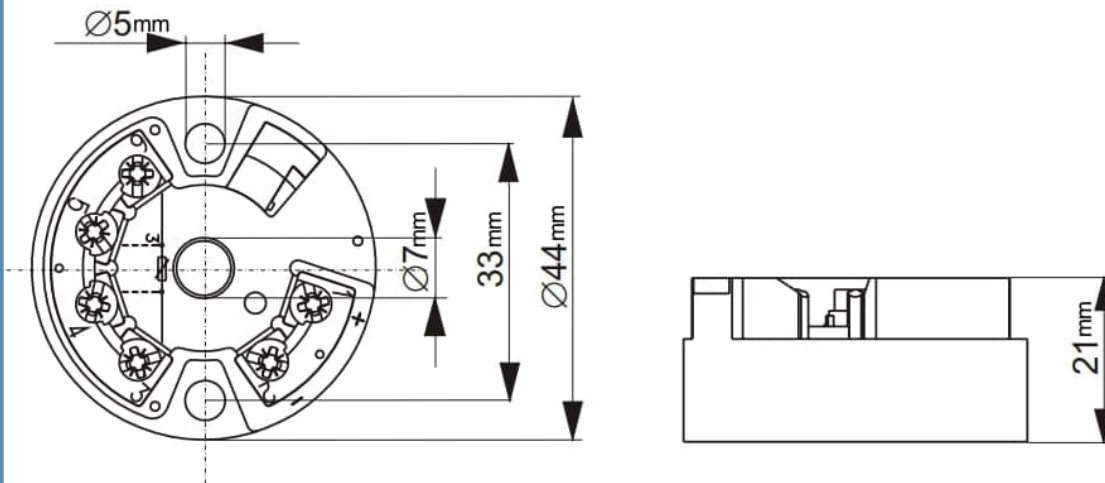
Industry Usage

Waste management, HVAC, Energy management, Food processing, Refineries, Pharmaceutical

Wiring Diagram



Dimensions



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RTD Input Table

Type	Min. Temperature	Max. Temperature	Min. Span
Pt 100	-200°C	850°C	10°C

Accessories:

TX420-cable-usb: includes a PC software package, a communication adapter and the serial connection cable.

Ordering Data

TXR420/ (programming/ temp range) - (output) - (input)
0 = no programming 4 = 4...20mA 3W = 3-wire
20 = 20...4mA 4W = 4-wire

ie. TXR420/0-0-0: temperature transmitter with no calibration

ie. TXR420/-20C300C-4-3W: temperature transmitter calibrated for a Pt100 at a temp range of -20°C...300°C with a 4...20mA output