

Flue Gas Temperature



The flue gas temperature series is designed to allow monitoring of flue gas operating temperatures. The terminal head is mounted on a stand-off to decrease heat transfer to the terminal block or temperature transmitter and wire connections held within.

- ◆ Easy installation
- ◆ Rapid response
- ◆ Rugged design

Technical Data

Wire:

- 200°C: 24 AWG, teflon/teflon
- 400°C: 24AWG, fiberglass/fiberglass
- 600°C: 20AWG, fiberglass/fiberglass

Coupling / nipple extension:

- Terminal block connection: 2" between head and flange
- Temperature transmitter connection: 6" between head and flange

Sheath material: 316 stainless steel

Probe diameter: 1/4"

Probe length: see ordering data

Sensor type: Pt100 RTD / Thermocouple

Accuracy:

- Pt100: +/- 0.3°C, DIN EN 60751 (according to IEC 751)
- Thermocouple: standard limits of error, special limits available

Operating temperature: see ordering data (200°C, 400°C and 600°C available)

Enclosure: aluminum head

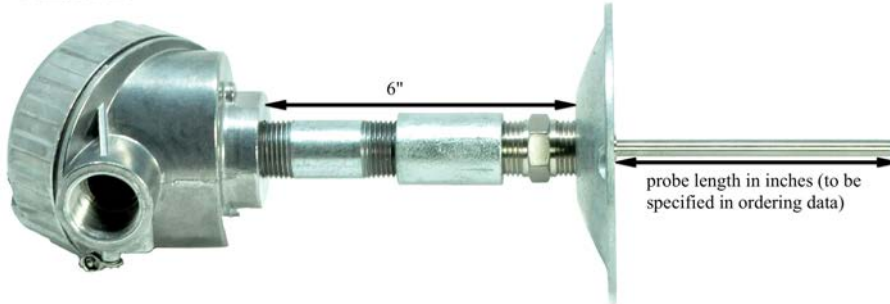
Mounting: aluminum flange

ENERCORN instruments ltd

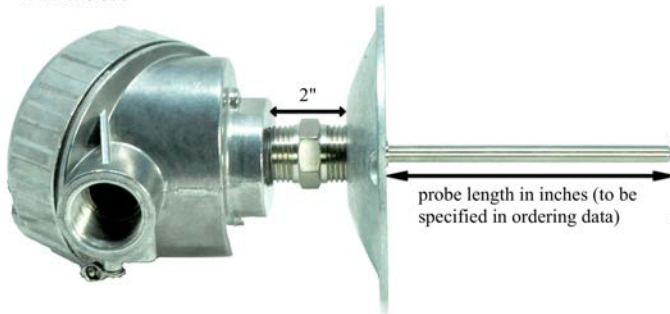
25 Shorncliffe Road, Toronto, ON, M9B3S4, Canada
Tel: 416-231-5335, Toll free: 1-800-363-7267

Industry Usage:
Manufacturing

Flue gas with temperature transmitter
Dimensions



Flue gas w/ terminal block
Dimensions



Ordering Data

TS-F -(probe length)- (sensor type)- (sensor value)- (max operating temp)
in inches R = RTD 100 = 100 ohms in °C
TC = Thermocouple K = K calibration

ie. TS-F-8-R-100-400: Flue gas temperature assembly with 8” long probe, 100 ohm RTD and maximum operating temperature of 400°C

TT-F -(probe length)- (sensor type)- (sensor value)- (max operating temp)/ (temp trans. range)
in inches R = RTD 100 = 100 ohms in °C
TC = Thermocouple K = K calibration

ie. TT-F-8-R-100-600/0C600C: Flue gas temperature assembly with 8” long probe, 100 ohm RTD, maximum operating temperature of 600C and temperature transmitter with a temperature range of 0...600°C

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

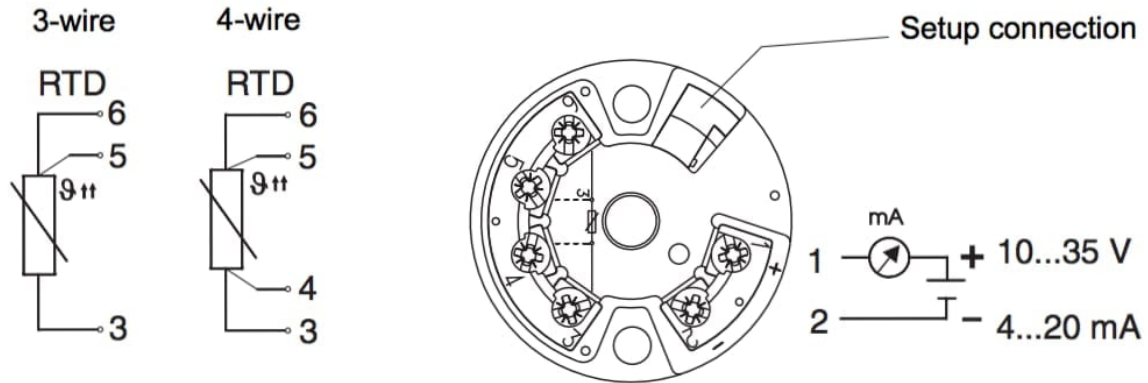
ENERCORP instruments ltd

25 Shorncliffe Road, Toronto, ON, M9B3S4, Canada
Tel: 416-231-5335, Toll free: 1-800-363-7267

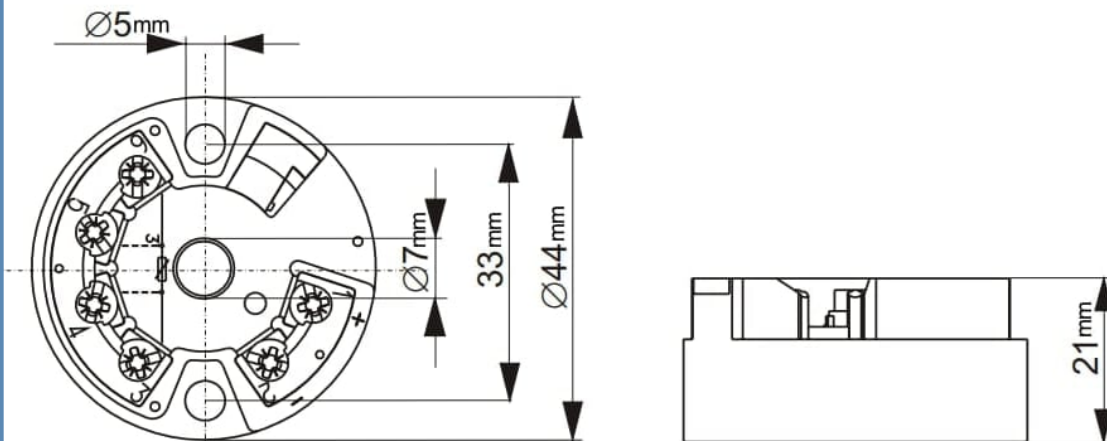
Industry Usage

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

Wiring Diagram



Dimensions



ENERCORP instruments ltd

25 Shorncliffe Road, Toronto, ON, M9B3S4, Canada
Tel: 416-231-5335, Toll free: 1-800-363-7267

