Specifications

Sensor	Pt100/1000 (w=1.385)
Measurement Range (T_{min}...T_{max})	☐ -50...50 °C, ☐ -50...100 °C, ☐ 0...50 °C, ☐ 0...100 °C, ☐ 0...150 °C, ☐ 0...200 °C, ☐ .....
Output Signal	4...20 mA, 2-wire
Output at Burnout / Shorted Sensor	32 mA / 0.2 mA
Power Supply	10…32 VDC ± 1 Vp-p at 50 Hz
Maximum Line Load	750 Ω at 24V/20mA
Electronic Measurement Error	0.2% from span or 0.2 °C (which is greater)
RTD Measurement Error	according to accuracy class
Temperature Drift	0.01% from span for 1 °C
Medium Pressure	max. 25 bar
Ambient Temperature / Humidity	-40…85 °C / 0…95% RH
EM Compatibility	according to EN 61326
Wetted Parts	☐ 1.4301, ☐ 1.4404, ☐ 1.4541, ☐ 1.4571
Process Connection	☐ M16x1.5, ☐ M18x1.5, ☐ M20x1.5, ☐ G3/8", ☐ G1/2", ☐ 3/8" NPT, ☐ 1/2" NPT, ☐ .....
Protection Class	IP65

Warranty and Support

……
serial number

……
manufacturing date

QC check mark ……(passed)
(stamp)

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QD-8.2.4-WC

Warranty

COMECO warrants this product to be free from defects in materials and workmanship for 1 year. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see '**Specifications**').

Technical support

In the unlikely event that you encounter a problem with your COMECO device, please call your local dealer or contact directly our support team.

v9-2-11.16

COMECO
CONTROL & MEASUREMENT

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TEMPERATURE PROBE WITH CURRENT OUTPUT

TSOK

OPERATION MANUAL

Please read this Operation Manual before mounting and operating.
Save the Manual for future references.

Mounting and Wiring

Mounting

- Install the temperature probe according to its process connection type (see '**Specifications**').
- Screw the probe to the process socket using an appropriate sealing.

Wiring

- Turn the loop power supply off.
- Remove the upper (female) part of the HIRSCHMAN connector.
- Connect the probe to current loop as shown on the left.
- Plug the connector in its male part and tight it using the fixing screw.

Declaration of Conformity

The undersigned hereby declares, on behalf of COMECO Inc., that this this temperature probe with current output model TSOK is in conformity with standards EN 61326-1:2013 and EN 50581:2012, and meets the requirements of Directives 2014/30/EU and 2011/65/EU.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Krasimir Darakchiev, CEO
COMECO Inc.

Operating

- Check the loop power supply voltage (see '**Specifications**').
- Turn the power on.
- The transmitter must generate a current output according to the calculation:

$$I_{out} = 4 + \frac{16*(T-T_{min})}{T_{max} - T_{min}} \quad [mA],$$

where T is within the measurement range (see '**Specifications**'), and the total measurement error (sensor and electronics errors) – left out.

Waste Disposal

Do not dispose of electronic devices together with household waste material.

If disposed of within European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).