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## **PROGRAMMABLE TEMPERATURE PROBE WITH CURRENT OUTPUT**

### **TSOJ**

#### **OPERATION MANUAL**

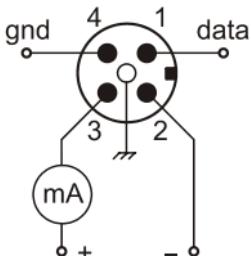


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Please read this Operation Manual before mounting and operating!  
Save the Manual for future references!

## M12 connector

(female - front face)



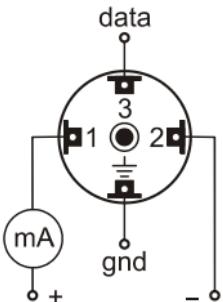
1(4) - do not connect

2 - loop (-)

3 - loop (+)

## DIN 43650 connector

(female - front face)



1 - loop (+)

2 - loop (-)

3(=) - do not connect

## 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 wiring connector (see '**Specifications**').
- ◆ Connect the probe to current loop as shown on the respective diagram.
- ◆ Plug the connector in its male part and screw.

# Operating

- ◆ Check the loop power supply voltage (see '**Specifications**').
- ◆ Turn the power on.
- ◆ The probe must generate a current output according to the preset parameters.



### Important note:

*Make sure the version  
of the configuration  
program used  
supports your device.*

- ◆ Download the latest version of "TraCon" software from [www.tracon.bz](http://www.tracon.bz) and unpack it.
- ◆ Connect TSOJ to your PC via the proper communication cable (see [www.comecogroup.com/corp/english/pdf/icables\\_e.pdf](http://www.comecogroup.com/corp/english/pdf/icables_e.pdf)).
- ◆ Start "TraCon" configuration software.
- ◆ Select profile type 'J' from 'Configuration' menu.
- ◆ Follow the software menus, help, and hints to re-program the probe.

## Declaration of Conformity



The undersigned hereby declares, on behalf of COMECO Inc., that this device has been manufactured in compliance with standards EN 61000, EN 61010, EN 61326, and IEC 751 / EN 60751, and meets the requirements of Directives 2004/108/EC, 2006/95/EC, and 2011/65/EU.

Krasimir Darakchiev, CEO  
COMECO Inc.

## 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 the WEEE Directive 2011/65/EU on the Waste Electrical and Electronic Equipment.

Sensor	Pt100 (w=1.385)
Measurement Range (T <sub>min</sub> ...T <sub>max</sub> )	programmable within -50...200 °C, min. 50 °C; preset: ..... °C
Output Signal	2-wire, programmable, 4...20 mA (direct) or 20...4 mA (reverse); preset: <input type="checkbox"/> direct, <input type="checkbox"/> reverse programmable, < 3.9 mA (low) or > 20.2 mA (high); preset: <input type="checkbox"/> low, <input type="checkbox"/> high
Sensor Failure Reaction	10...32 VDC ± 1 Vp-p at 50 Hz
Power Supply	800 Ω at 24V/20mA
Maximum Output Loop Load	<input type="checkbox"/> M16x1.5, <input type="checkbox"/> M18x1.5, <input type="checkbox"/> M20x1.5, <input type="checkbox"/> G3/8", <input type="checkbox"/> G1/2", <input type="checkbox"/> 3/8" NPT, <input type="checkbox"/> 1/2" NPT, <input type="checkbox"/> .....
Process Connection	max. 25 bar
Medium Pressure	-40...85 °C / 0...99% RH
Ambient Temperature / Humidity	<input type="checkbox"/> 1.4301, <input type="checkbox"/> 1.4571, <input type="checkbox"/> 1.4404,
Wetted Parts	<input type="checkbox"/> .....
Wiring Connector	<input type="checkbox"/> M12, <input type="checkbox"/> DIN 43650
Protection Class	IP65

## Warranty and Support

.....  
article number

.....  
serial number

.....  
manufacturing date

QC check mark .....(passed)  
(stamp)

88 Slavyanska Str.  
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QD-8.2.4-WC

### Warranty

COMEKO 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.