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SMART ISOLATED TRANSMITTER

TRZ

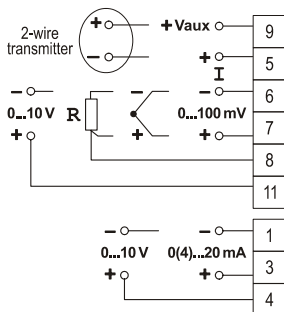
OPERATION MANUAL



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

TRZ is a universal isolated transmitter enclosed in a standard 11-pin box. It allows the user to select input signal type and range, to perform offset correction and device calibration, to specify input type and ranges and output type and transmit function, to select decimal point position, measurement unit and output reaction at sensor failure, and to adjust the digital filters. TRZ is easy to program via the specialized configuration software "TraCon".

Mounting and Wiring



Notes:

- ◆ In case of 2-wire resistive input, short out terminals 7 and 8.
- ◆ Power supply polarity does not matter!

Mounting

TRZ can be easily mounted on every 35 mm rail conforming to EN50022 by the means of a standard UNDECAL socket base.

Wiring

- ◆ Connect the input with regard to its type through the respective socket-base terminals as shown on the left.



Voltage transmitters connected to TRZ input should be powered ONLY by external source!

- ◆ Wire transmitter output with regard to its type via terminals 1 and 3 or 4.
- ◆ Connect the right power supply voltage for your device (see '**Specifications**') through terminals 2 and 10.
- ◆ To minimize measuring errors, make sure the connecting screws are tightened enough.

Indication

- ◆ The LEDs on the device front panel indicate the following:
 - current-output-loop break ('ALARM');
 - voltage-output overload ('LOAD');
 - power supply ON ('POWER').
- ◆ To avoid 'ALARM' indication when using voltage output, short out terminals 1 and 3.

**Important note:**

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

Configuration

- ◆ Download the latest version of "TraCon" software from www.tracon.bz and unpack it.
- ◆ Connect TRZ to your PC via the front-panel connector and the proper communication cable.
- ◆ Start "TraCon" configuration software.
- ◆ Select profile type "Y" from 'Configuration' menu.
- ◆ Follow the software menus, help and hints to configure the unit.

Calibration

The device is factory calibrated and cannot be recalibrated by the user.

Declaration of Conformity



The undersigned hereby declares, on behalf of COMECO Inc., that this device has been manufactured in compliance with standards EN 61010-1:2010 and EN 61326-1:2013 and meets the requirements of Directives 2006/95/EC and 2004/108/EC.

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 Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

Input:	programmable
Pt100 (w=1.385), 3-wire	-200...850 °C
Pt1000 (w=1.385), 3-wire	-100...600 °C
PTC (1k or 2k at 25 °C), 3-wire	-50...150 °C
T/C "J" (Fe-CuNi)	-20...1000 °C
T/C "K" (NiCr-Ni)	-20...1300 °C
T/C "T" (Cu-CuNi)	-40...400 °C
T/C "R" / "S" (PtRh13/10-Pt)	0...1700 °C
T/C "B" (PtRh30-PtRh6)	200...1800 °C
Linear Current / Voltage / Resistive	0(4)...20 mA / 0...10 V, 0...100 mV / 0...1 kΩ
RTD / T/C Minimum Range Width	50 °C / 100 °C
Input / Output Isolation	1500 VAC for 1 min
Sensor Failure Reaction	0 mA or > 20.2 mA, programmable
Output	0(4)...20 mA or 0...10 V, programmable
Output Transmit Function	normal or reversed, programmable
Output Load	max. 600 Ω at 20 mA; min. 2 kΩ at 10 V
Resolution	4 μA or 2.5 mV
Manual Output Control	0...100%, programmable
Power Supply	<input type="checkbox"/> 230 VAC, <input type="checkbox"/> 115 VAC, <input type="checkbox"/> 12...24 V, <input type="checkbox"/> 24 VAC, <input type="checkbox"/>
Excitation Voltage (Vaux)	18...28 VDC, max. 30 mA
Measurement Error / Temperature Drift	0.3% from span / 0.01% from span for 1 °C
Ambient Temperature / Humidity	-20...85 °C / 0...90% RH
Protection Class	IP20

Warranty and Support

Warranty

COMECO warrants this product to be free from defects in materials and workmanship for 2 years. 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.

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article number

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serial number

.....
manufacturing date

QC check mark(passed)
(stamp)

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