

## Specifications

Input:	programmable
Pt100 (w=1.385), 3-wire	-100...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 (PtRh13-Pt)	0...1700 °C
T/C S (PtRh10-Pt)	0...1700 °C
T/C B (PtRh30-PtRh6)	200...1800 °C
Linear current / voltage / resistive	0(4)...20 mA / 0...100 mV / 0...1 kΩ
Custom linear (auxiliary)	<input type="checkbox"/> ..... , instead of 0(4)...20 mA
RTD / T/C Minimum Range Width	50 °C / 100 °C
Input / Output Isolation	<input type="checkbox"/> none, <input type="checkbox"/> 1500 VAC for 1 min
Sensor Break Reaction	< 3.8 mA or > 20.2 mA, programmable
Output	4...20 mA or 20...4 mA, programmable
Resolution	4 µA (12-bit)
Manual Output Control	0...100%, programmable
Power Supply / Maximum Line Load	8...32 VDC ± 10% / 750 Ω at 24V/20mA
Measurement Error	0.3% from span
Temperature Drift	0.01% from span for 1 °C
Operating Temperature / Humidity	-20...85 °C / 0...90% RH
Protection Class	IP20

## 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 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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## SMART (ISOLATED) TRANSMITTER

### TRB(I)

for in-head mounting

OPERATION MANUAL

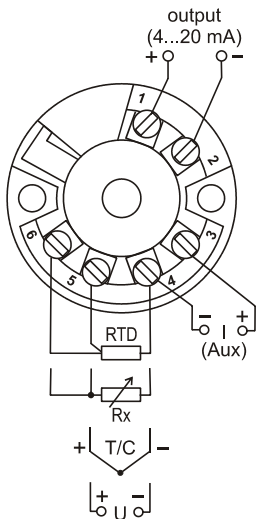


Please read this Operation Manual before mounting and operating!  
Save the Manual for future references!

## Overview

The intelligent transmitter TRB(I) 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 break, and to adjust the digital filters. TRB(I) is easy to program via the specialized configuration software "TraCon".

## Wiring



- ◆ To connect sensor or signal to the transmitter universal input, use terminals 3, 4, 5, and/or 6 in accordance with the wiring diagram.
- ◆ Wire transmitter current output through terminals 1(+) and 2(-).
- ◆ In order to minimize measuring errors, make sure the connecting screws are tightened enough.

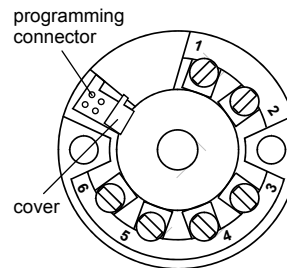


In case of 2-wire resistive input, connect terminals 5 and 6 together.

## Mounting

- ◆ TRB(I) for in-head mounting is designed to be incorporated inside temperature protective heads with 33 mm distance between centers of the female threaded openings.
- ◆ Install the transmitter into the temperature probe head using two M4 screws with appropriate length. To ensure vibration proof, use special screws with springs.
- ◆ Your TRB(I) can also be easily mounted on every 35 mm rail conforming to EN50022 by the means of a special snap-on accessory, which has to be ordered separately.

## Configuring



- ◆ Download the latest version of "TraCon" software from [www.tracon.bz](http://www.tracon.bz) and unpack it.
- ◆ Connect TRB(I) to your PC via the programming connector and the proper communication cable (see [www.comecogroup.com/corp/english/pdf/icables\\_e.pdf](http://www.comecogroup.com/corp/english/pdf/icables_e.pdf)).
- ◆ If your transmitter is not isolated (see '**Specifications**'), connect it to a powered current loop, and then turn the power on.
- ◆ Start "TraCon" configuration software (version 1.18 or higher).
- ◆ Select profile type 'B' from 'Configuration' menu.
- ◆ Follow the software menus, help and hints to configure the unit.



### Important note:

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