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)	☐ .... , instead of 0(4)...20 mA
RTD / T/C Minimum Range Width	50 °C / 100 °C
Input / Output Isolation	☐ none, ☐ 1500 VAC for 1 min
Sensor Failure 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

SMART (ISOLATED) TRANSMITTER

TRB(I)
for DIN-rail mounting

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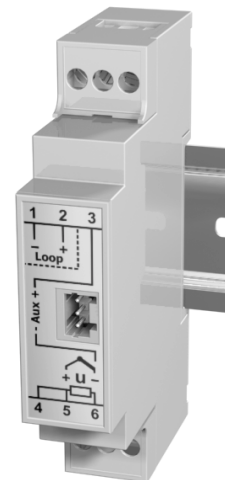
Please read this Operation Manual before mounting and operating!
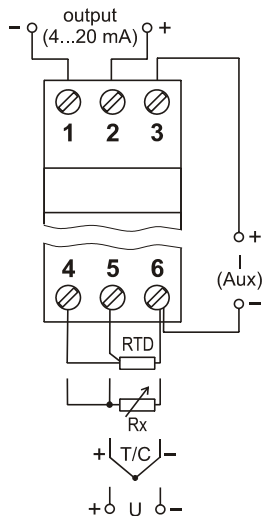Save the Manual for future references!

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 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 4 and 5 together.*

Mounting

TRB(I) for DIN-rail mounting is designed to be easily mounted on every 35 mm rail conforming to EN50022.

Configuring

♦ Download the latest version of "TraCon" software from 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).
♦ 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.
♦ 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.