



0.4 % from span

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In-head SMART Transmitters TRB

- Low price for a SMART transmitter
- ♦ Nigh resistance to electromagnetic disturbances
- ♦ User selectable 2 thermoresistances and 6 thermocouples
- Fast and convenient programming without power supply
- Built in digital filter

The **TRB** series transmitters distributed by CONECO are manufactured by Swedish company INOR. They are an economical variant of **SMART transmitter**. These transmitters allow the user at any time to:

- select the sensor type (2 thermoresistances and 6 thermocouples)
- to set the input range limits corresponding to output limits 4 and 20 mA
- to select output state at sensor break
- to adjust the "zero" (the offset)
- to select the suppression time of the built in digital filter

TRB series transmitters have an **interface to a PC** allowing the user to configure them using special software for WINDOWS™. The programming may be performed either **with the power on or off**. TRB transmitters feature **various mounting options**: in the protective head type "B" of a temperature sensor, in a box with high protection class, or on rail with a special snap on accessory. TRB transmitters are **exceptionally versatile** and offer solution to a vide range of applications requiring conversion of temperature sensor signals into current signal. They are easy to use, **low-priced** and resistant to electromagnetic disturbances.





Technical specifications

Input	Programmable
Pt100 (w=1.385), 3 wire	from min200 to max. +600 °C
Pt100 (w=1.391), 3 wire	from min200 to max. +600 °C
RTD selectable range	programmable within the ranges
-	above
Minimal RTD range width	25 °C
Thermocouples E, J, K, L, T, U	from min200 to max. +600 °C
TC selectable range	programmable within the ranges
	above
Minimal TC range width	100 °C
Zero "offset" adjustment	from lower input range to 50% of
	the upper range
Interface	
Interface type	RS-232
Software (optional)	For Windows: 3.11, 95, 98 and
	Windows NT Workstation 4.0
Input	
Signal type	4 to 20 mA
Linearly proportional to	measured temperature
Resolution	5 μΑ
Current limits	L=3.5 mA, H=21.6 mA
Selection of current limit at	L or H - programmable
sensor break	
Output refresh time	1.5 s
Digital filter	(1) Suppression time 2.0 s

ABBREVIATIONS: RTD - thermoresistance; TC - thermocouple

Accuracy

Measurement error		0.4 % from span
Nonlinearity	within measurement error	
Temperature drift		0.01 °C for 1 °C
Cold junction compensation	Automatic so	oftware: ± 0.5 °C
Power supply		
Voltage	8 to 36 VDC	
Admissible variations	4 Vp-p @ 50Hz	
Line load	Max. 725Ω @ 24V/22mA	
Operating conditions		
Operating temperature	-40 to 85 °C	
Operating humidity	0 to 95 %RH, non-condensing	
Design and materials		
Case material		Plastic
Wiring	Screw terminals	
Central bore [mm]		Ø7
Mounting	In head (2)	in box
Dimensiana Immi	Q44.00	80x80x60
Dimensions Immi	Ø44x26	
Dimensions [mm] Weight		
Weight Protection: case/terminals	Ø44x26 50 g IP 56/10	190 g

Ordering code



TRB - G12 - #1

Code	Feature or option	Code values
G12	Mounting	B - For mounting in a head type "B" (2), D - for mounting in a box IP-65
#1	Software	X - none, S - plus a software package for programming, monitoring and a cable to PC

⁽¹⁾ User programmable

⁽²⁾ May be mounted on a rail by a special snap on accessory, which is ordered separately.