

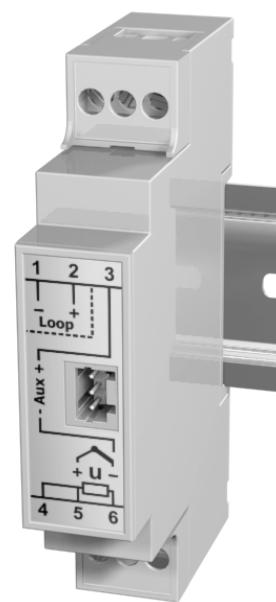
Isolated SMART Transmitter TRBI

- ◆ 1500 VAC input / output isolation
- ◆ Universal programmable input
- ◆ User-selectable 4 RTD types and 6 thermocouples
- ◆ Accepts linear current, voltage, and resistive signals
- ◆ Programmable input and output range
- ◆ Built-in programmable digital filter
- ◆ Manual output control
- ◆ Serial interface for programming
- ◆ IP65 box and Ex housing available

The intelligent isolated transmitter TRBI, manufactured by COMEKO, is available in case prepared for mounting in Ex housings, in casing for in-head mounting, and in another for DIN-rail mounting, as well as mounted into an IP65 protection box. This transmitter allows the user to:

- select sensor and input signal type;
- select and adjust input range;
- perform offset correction and device calibration;
- specify input ranges and output type (4...20 mA / 20...4 mA);
- select decimal point position and measurement unit;
- select output reaction at sensor failure;
- adjust the digital filter.

The TRBI transmitter is easy to program via the specialized configuration software "TraCon". Thanks to its large capabilities and low price, TRBI can be very useful in various industrial field applications requiring signal isolation.



Technical specifications

Input	(programmable)	Accuracy
Pt100 (w=1.385); 3-wire	min. -100...max. 850 °C	0.3% from span
Pt1000 (w=1.385); 3-wire	min. -100...max. 600 °C	within measurement error
PTC (1k at 25 °C); 3-wire	min. -50...max. 150 °C	0.01% from span for 1 °C
PTC (2k at 25 °C); 3-wire	min. -50...max. 150 °C	automatic software, ± 0.5 °C
RTD minimum range width	50 °C	
Thermocouple "T"	min. -40...max. 400 °C	
Thermocouple "J"	min. -20...max. 1000 °C	
Thermocouple "K"	min. -20...max. 1300 °C	
Thermocouple "S"	min. 0...max. 1700 °C	
Thermocouple "R"	min. 0...max. 1700 °C	
Thermocouple "B"	min. 200...max. 1800 °C	
T/C minimum range width	100 °C	
Linear current	0(4)...20 mA	
Linear voltage	0...100 mV or 0...10 V ⁽¹⁾	
Linear resistive	0...1 kΩ	
Custom linear (option)	on request ⁽²⁾	
Offset adjustment	within range limits	
Digital low-pass filter	programmable	
Digital peak filter	programmable	
Input / output isolation	1500 VAC for 1 min	
Input monitoring	(programmable)	Power supply
Sensor failure reaction	< 3.8 mA or > 20.2 mA, programmable	Supply voltage
Output	(programmable)	Maximum line load
Signal type	4...20 mA or 20...4 mA	8...32 VDC ± 10%
Linearly proportional to	measured value	750 Ω at 24V/20mA
Resolution	4 µA	
Output calibration	through interface	
Manual output control	0...100%, programmable	
Design and materials		
Case material		plastic
Wiring		screw terminals
Mounting	in head ^(4,5,6)	on rail
Interface connector	4-pin	4-pin
Interface cable type ⁽³⁾	K1, K1U, K11U	K2, K2U, K12U
Dimensions [mm]	ø44x23	18x90x58
Weight	40 g	60 g
Protection class	IP20	IP20

⁽¹⁾ Ask for availability!

⁽²⁾ Instead of linear current

⁽³⁾ Ordered separately

⁽⁴⁾ Head type "B" or any other with 33 mm distance between centers of the female threaded openings

⁽⁵⁾ May be mounted on rail by a special snap-on accessory, which is ordered separately (see 'Accessories').

⁽⁶⁾ May be mounted in different, separately ordered Ex housings for field applications (see 'Accessories').

Ordering code TRBI - G12 - #1

Code	Feature or option	Code values
G12	Mounting	B - in head ^(4,5) , C - on DIN rail, D - in box IP65 (box included) ⁽⁶⁾ , E - in Ex housing (includes mounting kit only)
#1	Auxiliary input signal	X - none, Z - linear signal (specify!) ⁽²⁾