



0.3 % from span

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8 to 30 VDC

4 Vp-p @ 50Hz

0.02 % from span for 1 °C Automatic hardware \pm 1 °C

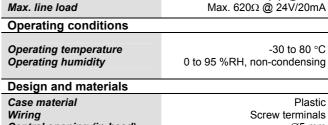
Transmitters with Selectable Input TRA

- Low cost
- ♦ High resistance to electromagnetic disturbances
- 10 selectable ranges for Pt100 sensors
- 7 selectable thermocouples
- ♦ In-head and DIN-rail versions
- ♦ IP65 protection box available

The COMECO temperature transmitter series TRA is a compromising solution between the analog transmitters with fixed range and programmable transmitters. TRA transmitters allow on-site selecting input range and sensor type (for thermocouples) as well as transmitter reaction to sensor break by means of a group of soldering bridges (jumpers). The exact range can be adjusted by 'zero' and 'span' potentiometers. These transmitters have a special plastic cover to protect solder jumpers from the environment. Various mounting options are available: in sensor protection head type "B", in a box with high protection class, or on a DIN rail. This series of transmitters is also applicable in Ex zones using external Zener barrier. Due to their flexibility, excellent resistance against electromagnetic disturbances, and low price, the TRA transmitters are easy-to-use and very widely applicable.

Technical specifications

Input	
Pt100 (w=1.385), 3-wire	-50+50°C; -50+100°C;
	0+50°C; 0+100°C; 0+150°C;
	0+200°C; 0+300°C; 0+400°C;
	0+500°C; 0+600°C
Thermocouple "E"	0 to +600 °C
Thermocouple "J"	0 to +800 °C
Thermocouple "K"	0 to +1200 °C
Thermocouple "L"	0 to +700 °C
Thermocouple "L-GOST"	0 to +600 °C
Thermocouple "N"	0 to +1200 °C
Thermocouple "T"	0 to +300 °C
Range selection	jumpers
Thermocouple selection	jumpers
Zero adjustment	± 50 °C
Range adjustment	±10%
Output	
Signal type	4 to 20 mA
RTD output proportional to	temperature
TC output proportional to	input voltage
Current limit	Low=3 mA, High=28 mA
Current limit selection	Jumpers
Sensor break RTD	Low or High (depends on terminal)
Sensor break TC	High=28 mA



Central opening (in-head) \emptyset 5 mm In head (1) Mounting On rail In box Dimensions [mm] Ø43x30 75x17x60 80x80x60 Weight 35 g 90 g 180 g Protection case/terminals IP20/20 IP20/20 IP65

ABBREVIATIONS: RTD - thermoresistance; TC - thermocouple

Ordering code



TRA - G6'.G12 - #1

Accuracy
Measurement error

Nonlinearity

Temperature drift

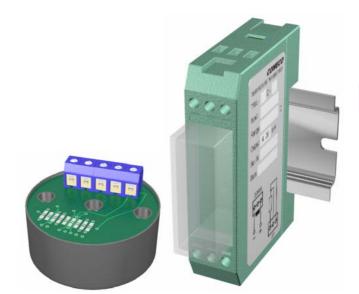
Power supply
For standard type

Admissible variations

Cold junction compensation

Code	Feature or option	Code values
G6'	Input signal type	B - thermoresistance Pt100, C - thermocouple (2)
G12	Mounting	B - for mounting in head type "B" (1), C - for mounting on a DIN rail, D - for mounting in a box IP65 (box included)
#1	DIN-rail snap-on accessory	X - none, SN - DIN-rail mounting snap

⁽¹⁾ May be mounted on rail by a special snap-on accessory, which is ordered separately.



⁽²⁾ Thermocouple type is user selectable by jumpers.