

Programmable In-head RTD Transmitter TROJ

- ◆ For low-budget applications
- ◆ Programmable conversion range
- ◆ 2-wire 4...20 mA output
- ◆ Low profile
- ◆ Vibration-proof design



Technical specifications

Input		(programmable)		Interface	
Input (RTD) type		Pt100 (w=1.385)		Interface type	RS232, requiring special cable ⁽²⁾
Measurement range		min. -50...max. 200 °C or min. -50...max. 600 °C		Configuration software	"TraCon", free
Minimum programmable span		50 °C		Operating conditions	
Output		(programmable)		Operating temperature	-30...70 °C
Signal type		4...20 mA or 20...4 mA, 2-wire		Operating humidity	0...95 %RH, non-condensing
Maximum load		800 Ω at 24V/20mA		Storage temperature	-40...85 °C
Sensor failure reaction		< 3.9 mA or > 20.2 mA, programmable		Approvals	CE, UL
Accuracy				Design and materials	
Measurement error		0.2% from span or 0.2 °C ⁽¹⁾		Case material	plastic
Self-heating error		0.005%/mA at 24 V		Wiring	screw terminals
Non-linearity		within measurement error		Mounting	in head ^(3,4,5) / in box ⁽⁴⁾
Temperature drift		0.01% from span for 1 °C		Interface connector	4-pin / 4-pin
RTD 3-wire line compensation		up to 25 Ω per wire		Interface cable type ⁽²⁾	K1, K11U / K1, K11U
Power supply				Dimensions [mm]	ø44x19 / 80x80x60
Loop supply voltage		10...32 VDC		Weight	25 g / 170 g
Admissible variations		1 Vp-p at 50 Hz		Protection class	IP20 / IP65

⁽¹⁾ Which is greater

⁽²⁾ Ordered separately

⁽³⁾ Head type "B" or any other with 33 mm distance between centers of the female threaded openings

⁽⁴⁾ May be mounted on rail by a special snap-on accessory, which is ordered separately (see 'Accessories').

⁽⁵⁾ May be mounted in different, separately ordered Ex housings for field applications (see 'Accessories').

Ordering code TROJ* - G12

Code	Feature or option	Code values
*	Variant	1 - for min. -50...max. 200 °C, 2 - for min. -50...max. 600 °C
G12	Mounting	B - in head ^(3,4) , D - in box IP65 (box included) ⁽⁴⁾ , E - in Ex housing (includes mounting kit only)