

## Programmable In-head RTD Transmitter TROJ



- ◆ For low-budget applications
- ◆ Pt100 input
- ◆ Programmable conversion range
- ◆ 2-wire 4...20 mA output
- ◆ Low profile
- ◆ Vibration-proof design
- ◆ Programming via free "TraCon" software

### Technical specifications

<b>Input</b> <span style="float: right;"><i>(programmable)</i></span>	
<b>Input (RTD) type</b>	Pt100 (w=1.385)
<b>Measurement range</b>	min. -50...max. 200 °C or min. -50...max. 600 °C
<b>Minimum programmable span</b>	50 °C
<b>Output</b> <span style="float: right;"><i>(programmable)</i></span>	
<b>Signal type</b>	4...20 mA or 20...4 mA, 2-wire
<b>Maximum load</b>	800 Ω at 24V/20mA
<b>Sensor failure reaction</b>	< 3.9 mA or > 20.2 mA, programmable
<b>Accuracy</b>	
<b>Measurement error</b>	0.2% from span or 0.2 °C <sup>(1)</sup>
<b>Self-heating error</b>	0.005%/mA at 24 V
<b>Non-linearity</b>	within measurement error
<b>Temperature drift</b>	0.01% from span for 1 °C
<b>RTD 3-wire line compensation</b>	up to 25 Ω per wire
<b>Power supply</b>	
<b>Loop supply voltage</b>	10...32 VDC
<b>Admissible variations</b>	1 Vp-p at 50 Hz

<b>Interface</b>	
<b>Interface type</b>	RS232-based, requiring special cable <sup>(2)</sup>
<b>Configuration software</b>	"TraCon", free
<b>Operating conditions</b>	
<b>Ambient temperature</b>	-20...70 °C
<b>Ambient humidity</b>	0...95 %RH, non-condensing
<b>Design and materials</b>	
<b>Case material</b>	plastic
<b>Wiring</b>	screw terminals
<b>Mounting</b>	in head <sup>(3,4,5)</sup> in box <sup>(4)</sup>
<b>Interface connector</b>	4-pin
<b>Interface cable type</b> <sup>(2)</sup>	K1, K11U
<b>Dimensions [mm]</b>	ø44x19
<b>Weight</b>	25 g
<b>Protection class</b>	IP20

<sup>(1)</sup> Which is greater

<sup>(2)</sup> Ordered separately

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

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

<sup>(5)</sup> 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	<b>1</b> - for min. -50...max. 200 °C, <b>2</b> - for min. -50...max. 600 °C
G12	Mounting	<b>B</b> - in head <sup>(3,4)</sup> , <b>D</b> - in box IP65 (box included) <sup>(4)</sup> , <b>E</b> - in Ex housing (includes mounting kit only)