

Programmable Transmitters TRY

TR

- ◆ Universal programmable input
- ◆ Select one of 4 RTD types and 4 thermocouples
- ◆ Programmable input and output range
- ◆ Built-in programmable digital filter
- ◆ Input to output isolation
- ◆ Serial interface for programming

The intelligent transmitters of the TRY series by COMECO are designed especially for mains power supply and rail mounting. For high environmental protection TRY can be ordered mounted in a box with IP65.

This model allow the user to:

- select sensor type (4 RTD types and 11 thermocouples)
- create an input for a custom sensor (mV, Ω)
- select and adjust input range
- perform device and sensor calibration
- specify input ranges and output type (4...20 mA/20...4mA)
- select output reaction on sensor break
- adjust the "zero" (the offset), the digital filter and the sampling time

TRY transmitters are easy to program by using the specialized software. The large capabilities of TRY transmitters and their low price determine their wide industrial application.



Technical specifications

Input	Programmable	Accuracy	
<i>PtX (w=1.385) 3 wire</i>	from min. -100 to max. +800 °C	<i>Measurement error</i>	0.3 % from span
<i>PtX (w=1.391), 3 wire</i>	from min. -100 to max. +800 °C	<i>Non-linearity</i>	within measurement error
<i>RTD resistance at 0 °C</i>	46Ω ≤ X ≤ 100Ω	<i>Temperature drift</i>	0.01 °C for 1 °C
<i>CuX (w=1.426), 3 wire</i>	from min.. -50 to max.. +200 °C	<i>Cold junction compensation</i>	Automatic software: ± 0.5 °C
<i>CuX (w=1.428), 3 wire</i>	from min. -50 to max. +200 °C	Power supply	
<i>RTD resistance at 0 °C</i>	50Ω ≤ X ≤ 100Ω	<i>Voltage</i>	220/110 VAC ± 10%
<i>RTD selectable range</i>	programmable in the ranges above	<i>Maximal line load</i>	750Ω @ 20mA
<i>RTD minimal range width</i>	20 Ω	Interface	
<i>Thermocouples (4 types)</i>	J, K, S, L-GOST	<i>Interface type</i>	RS-232
<i>TC input range</i>	from min. 0 to max. +100 mV	<i>Software (optional)</i>	For Windows: 3.11, 9x and NT
<i>TC selectable range</i>	programmable in the ranges above	Operating conditions	
<i>TC minimal range width</i>	5 mV	<i>Operating temperature</i>	-40 to 75 °C
<i>Other custom input</i>	mV/Ω within the ranges above	<i>Operating humidity</i>	0 to 95 %RH, no condensing
<i>ZERO adjustment</i>	within the range limits	Design and materials	
<i>Input/output isolation (option)</i>	1500 VAC for 1 min	<i>Case material</i>	Plastic
Input monitoring	Programmable	<i>Wiring</i>	Screw terminals
<i>Sensor break reaction</i>	Programmable: 3 or 22 mA	<i>Mounting (option)</i>	On rail In-box mounting, IP-65
Output	Programmable	<i>Dimensions (HxWxD)</i>	78x45x108 mm
<i>Signal type</i>	4 to 20 mA or 20 to 4 mA	<i>Weight</i>	190 g
<i>Linearly proportional to Resolution</i>	measured value 5 μA	<i>Protection: case/terminals</i>	IP 20/20
<i>Current limits</i>	L=3.5 mA, H=21.6 or 22.8 mA		
<i>Output refresh time</i>	1.5 s		
<i>Digital filter</i>	programmable		

ABBREVIATIONS: RTD - thermoresistance; TC - thermocouple

Ordering code



TRY - G1.G12 - #1#2

Code	Feature or option	Code values
G1	Power supply	A - 220 VAC, B - 110 VAC
G12	Mounting	C - for mounting on a rail, D - for mounting in a box IP-65
#1	Input to output isolation	X - none, I - input-output isolated transmitter
#2	Software	X - none, S - plus a software package for programming, monitoring and a cable to PC

COMECO reserves the right of changing specifications without prior notice!