

TRANSIND[®] Indicator-transmitter TC100

- ♦ Very low price
- ♦ Current or voltage input signals
- ♦ Nonlinear input signals may be measured and transmitted
- ♦ 48x48 or 96x48 DIN front panel size
- ♦ 4-digit LED programmable range display
- ♦ Isolated current or digital retransmission output

TRANSIND[®] a trademark of COMECO is a series of process indicators combining the functions of a transmitter and a process indicator in one device. This type of devices is placed between the measurement sensor signal transmitter and the standard current signal line leading to control room. They provide input to output galvanic isolation and at the same time display the measured signal near the point of measurement. In this way an isolated from the input current signal may be sent over long distances. The TC100 model features a programmable input to display correspondence. In the place of the current output an isolated digital interface RS485 may be ordered allowing connection into an industrial network and/or control from operator station in control room. Indicator-transmitters TC100 are equally well suited for both panel and rail mounting. In combination with an inexpensive non-isolated transmitter, the easily affordable TC100 devices successfully replace the expensive isolated transmitters with built in local display without compromising with the quality. These unique features make them applicable to a wide range of industrial solutions.



TI

Technical specifications

Input	(programmable)
Linear current [mA]	0 to 5, 0 to 20, 4 to 20
Other current (optional)	0 to max. 50 mA ⁽¹⁾
Linear voltage [mV]	0 to 50, 0 to 100
Linear voltage [V]	0 to 1, 0 to 2, 0 to 5, 0 to 10
Other voltage (optional)	0 to max. 10 V ⁽¹⁾
Input range selection	specify in order
Display range	Programmable: -199 to 9999
Digital point	Programmable
Transmitter power supply	12V / 30 mA
Analog output ⁽³⁾	
Output type	0(4) to 20 mA, isolated
Output function	Input signal retransmission
Isolation	Optical, 1500 VAC
Max. output load	Max. 500 Ω @ 20 mA
Digital interface (optional)	
Output type	RS485, isolated
Output function	Network, operator station
Isolation	Optical, 1500 VAC
Indication and keyboard	
Digital display	4 LED-indicators 9mm
Keyboard	2 membrane keys

Accuracy	
Input measurement error ⁽²⁾	0.2 % from span
Temperature drift	0.007 % from span for 1 °C
Output measurement error ⁽²⁾	0.5 % from span
Temperature drift	0.01 % from span for 1 °C
Operating conditions	
Operating temperature	-10 to 65 °C
Operating humidity	0 to 85 %RH
Power supply	
Supply voltage	220 VAC ± 10%
Pulse mode (optional)	90 to 250 VAC/DC
Consumption	Max. 2 VA
Design and materials	
Case material	Plastic
Mounting	On panel or on rail ("S")
Wiring	Screw terminals
Dimensions	"S" - 48 x 48 (front) x 105 mm "H" - 96 x 48 (front) x 110 mm
Weight	Max. 250 g
Protection front/terminals	IP-54 / IP-20

⁽¹⁾ These input signals are custom type – the signal range is set within the range.

⁽²⁾ Nonlinearity error included

Ordering code



TC100 - G0 - G1.G6'6".G9.G11

Code	Feature or option	Code values
G0	Case (front panel) type	H - horizontal 96x48, S - square 48x48
G1	Power Supply type	A - 220 VAC C - 90...250 VAC/DC ⁽⁴⁾
G6'6"	Input type	DA - 0...5 mA, DB - 0...20 mA, DC - 4...20 mA, DF - 0...50 mV, DG - 0...100 mV, DH - 0...1 V, DI - 0...2 V, DJ - 0...5 V, DK - 0...10 V, DZ - other current or voltage
G9	Interface ⁽⁴⁾	X - none, B - RS 485 (isolated)
G11	Analog output - retransmission ⁽³⁾	X - none, E - 0 to 20 mA (isolated), F - 4 to 20 mA (isolated)

⁽³⁾ Analog output is mounted AS A STANDARD and may be replaced by a digital interface ONLY at if this is specially ordered!

⁽⁴⁾ Contact COMECO for availability!

For detailed instructions on ordering coding see chapter "ORDERING CODES"!