

Flow and Total Volume Indicator TC981

- ◆ Two LED displays
- ◆ Indicates the total volume in 4 scales
- ◆ Shows current flow, average flow and the time elapsed
- ◆ Keyboard lock option
- ◆ Network operation option

The process indicator model TC981 by COMECO is a programmable device specially designed for measurement of flow of materials or energy. The indicator measures and indicates the following values:

- Current flow value
- Total volume since the starting moment (up to 10000000)
- Elapsed time since the starting moment
- Average flow for the period

The indicator has a standard analog input and is designed for operation in combination with flow transducers. The display range is specified in the customer order according to input range. TC981 has two 4-digit displays for indication of current flow and total volume and a specialized keyboard. An RS 485 digital interface option is available for network operation or a link to a control and monitoring system. The range of applications of the programmable digital indicator TC981 includes all cases of measurement of material or energy flow. The device provides valuable information that can be used for better resources management and subsequent cost cut down.



Technical specifications

Inputs	Linear analog
Voltage: 0...1 V	0 to max.9999
Voltage: 0...2 V	0 to max.9999
Voltage: 0...5 V	0 to max.9999
Voltage: 0...10 V	0 to max.9999
Linear current: 0...5 mA	0 to max.9999
Linear current: 0...20 mA	0 to max.9999
Linear current: 4...20 mA	0 to max.9999
Custom linear voltage: ⁽¹⁾	0 to max.9999
min. 0 to max. 40 V DC	0 to max.9999
Custom linear current: ⁽¹⁾	0 to max.9999
min. 0 to max. 50 mA DC	0 to max.9999
Display range	Specified in customer order
Decimal point position	Selected: x1, x0.1, x0.01
Scaling coefficient for total volume	
Elapsed time	x1, x10, x100, x1000 Max. 1000000 hours

Display and keyboard	
Current momentary flow display	Green: 4 digit, 14mm
Total volume display	Red: 4 digit, 14mm
Measurement unit display	4 green LEDs
Scaling coefficient display	4 red LEDs
Keyboard	8 membrane keys IP65

Accuracy	
Flow Input measurement error	0.1 % from span
Time measurement error	0.1 % from current value
Temperature drift	0.005 % from span for 1 °C
Power supply	
Supply voltage	220(110) VAC ± 10%
Switching power supply (optional)	90 to 250 VAC/DC
Consumption	Max. 4 VA
Digital interface (optional)	
Output type	RS485
Output function	Network, operator station
Discrete input (optional)	
Input type	Volt free contact or TTL
Input function	Keyboard lock
Operating conditions	
Operating temperature	-10 to 65 °C
Operating humidity	0 to 85 %RH
Design and materials	
Case material	Plastic
Mounting	In panel cut-out
Wiring	Screw terminals
Dimensions [mm]	96x96x120
Weight	Max. 600 g
Protection front/terminals	IP-54 / IP-20

⁽¹⁾ On request - set signal range within the stated limits

Ordering code



TC981 - G1.G6'6".G7.G9 - #1

Code	Feature or option	Code values
G1	Power Supply type	A - 220 VAC, C - 90...250 VAC/DC ⁽²⁾
G6'6"	Input signal type	DA - 0.5 mA, DB - 0.20 mA, DC - 4..20 mA, DH - 0.1V, DI - 0.2 V, DJ - 0.5 V, DK - 0..10 V, DZ - other ⁽¹⁾
G7	Discrete input	X - none, A - contact, G - TTL
G9	Interface	X - none, B - RS 485 ⁽²⁾
#1	Nonlinear input mapping	X - none (linear), N - nonlinear, specify by attached formula or look up table

⁽²⁾ Contact COMECO for availability!

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