

- Low cost
- Two alarm relay outputs
- 4-digit display
- Automatic software line and "cold junction" correction
- Self-testing and self-calibration

TC67 is a cheap programmable process indicator, based on COMECO's RT284 model. The device is widely applicable for indicating various physical variables within the input range with resolution of **up to 3000 points**. The four-digit display is very convenient in cases where temperatures above 1000 degrees have to be monitored as well as in any case where higher resolution is needed. TC67 is also equipped with a built-in circuit for self-testing and self-calibration, manual measurement offset setting, and automatic software compensation of line resistance or cold junction temperature. The indicator has two alarm relay outputs with separate setpoint, direction, and hysteresis adjustment, providing a flexible alarm control.

Technical specifications

Inputs	
Pt50 (w=1.385); 3-wire	-100.0 to +200.0(600) °C
Pt100 (w=1.385); 3-wire	-100.0 to +200.0(600) °C
Pt500 (w=1.385); 3-wire	-100.0 to +200.0(600) °C
Pt1000 (w=1.385); 3-wire	-100.0 to +200.0(600) °C
Cu100; 3-wire	-50.0 to +200.0 °C
Cu50; 3-wire	-50.0 to +200.0 °C
Other thermoresistive ⁽¹⁾	min100 to max. +800 °C
Thermocouple "J"	0 to +1000 °C
Thermocouple "K"	0 to +1300 °C
Thermocouple "L-GOST"	0 to +800 °C
Thermocouple "S"	0 to +1700 °C
Thermocouple "R"	0 to +1700 °C
Thermocouple "B"	0 to +1800 °C
Thermocouple "C"	0 to +2300 °C
Other thermocouple ⁽¹⁾	min. 0 to max. +2000 °C
Linear voltage (2)	0 to 10 V (0 to 3000)
Linear current ⁽²⁾	0(4) to 20 mA (0 to 3000)
Custom linear voltage ^(1,2)	max. 40 V (0 to max.3000)
Custom linear current ^(1,2)	max. 80 mA (0 to max. 3000)
Input type selection	fixed as specified in the order
Outputs	
Relay electromechanical	2x5A/250V, NO/NC contact
Solid state relay (option)	SSR - 1A/250 VAC
Transistor gate (option)	Open collector - 40mA/40V
Output for ext. SSR (option)	12/24 V, 50 mA
Control algorithm	ON/OFF
Set point	Within input range limits

Temperature drift 0.005 % from span for 1 °C Cold junction compensation Automatic software Line resistance compensation Automatic software Automatic software Calibration Power supply Supply voltage 230 or 110 VAC 90 to 250 VAC/DC Pulse mode (Low voltage supply (option) 12/24 VDC, 12 VAC or 12...24 VAC/DC Consumption Max. 3 VA Indication and keyboard Digital display 4 LED indicators, 20 mm Measurement offset Through keyboard LEDs 2 LEDs for relay outputs 3 membrane keys Keyboard **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 96 x 48 x 120 mm Max. 400 g Weight Protection front/terminals IP54 / IP20

Programmable parameters

⁽¹⁾ Custom - specify range within the limits stated

⁽²⁾ Provides voltage for external transmitter power supply - 12/24VDC

Ordering code

TC67 - G1.G3.G5G5.G6'6" - #1

Accuracy

Measurement error

Code	Feature or option	n	Code values
G1	Power supply type	e	A - 230 VAC, C - 90250 VAC/DC ⁽³⁾ , D - 12/24 VDC ⁽⁴⁾ , E - 12 VAC, P - 1224 VAC/ DC
G3	Resolution ⁽⁵⁾		B - 1, C - 0.1
G5	Relay output type X - none, C - relay NO/NC, D - SSR, E - open collector NPN, J - external SSR		X - none, C - relay NO/NC, D - SSR, E - open collector NPN, J - external SSR
G6'	Input signal type		B - thermoresistance, C - thermocouple, D - linear, Z - other on request
G6"	Sensor type	Thermoresistance (RTD) Thermocouple Linear	B - Pt50, D - Pt100, F - Pt500, G - Pt1000, H - Cu50, K - Cu100, Z - other B - "B", C - "C", J - "J", K - "K", M - "L-GOST", R - "R", S - "S", Z - other B - 020 mA DC, C - 420 mA DC, K - 010 VDC, Z - other
#1	Auxiliary supply output		X - none, AU - installed (12 or 24 ⁽³⁾ VDC/30mA)

According to control algorithm

⁽³⁾ Contact COMECO for availability!

⁽⁴⁾ Exact value is specified in customer order

⁽⁵⁾ Do not code for linear input types

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





0.4 % from span