

- From 20 to 32 mm digit height
- Universal programmable input
- Two programmable alarm relays
- Programmable digital filter
- Calibration and self-calibration
 Isolated current output
- RS485 serial interface option

TC660 is a multifunctional and cheap programmable process indicator for panel mounting, based on COMECO's RT384 model. It has a **universal input** for the most common thermoresistances, thermocouples, and linear signals. The input has a built-in automatic software compensation of line resistance and cold junction temperature as well as automatic software compensation of temperature drift. The operator can **calibrate the input** manually. TC660 is also equipped with a **programmable input filter** and a 4-digit display with programmable refresh rate. Available are various options for **access restriction**. The device has two programmable alarm relay outputs and an isolated **current output** as an option. TC660 can be also equipped with an isolated **RS485 option**. The device can be ordered with 20 mm or 32 mm LED display that provides excellent visibility in many applications.

Technical specifications

Input	(programmable)
Pt100 (w=1.385); 3-wire	-100 to 600 °C
Pt100 (w=1.391); 3-wire	-100 to 600 °C
Cu100 (w=1.426); 3-wire	-50 to 200 °C
Cu100 (w=1.428); 3-wire	-50 to 200 °C
Thermocouple "J"	0 to 1000 °C
Thermocouple "K"	0 to 1300 °C
Thermocouple "S"	0 to 1700 °C
Thermocouple "R"	0 to 1700 °C
Thermocouple "B"	100 to 1800 °C
Thermocouple "C"	0 to 2300 °C
Thermocouple "L - GOST"	0 to 600 °C
Linear voltage 0 to 50 mV ⁽¹⁾	-1999 to +9999
Linear current 0 to 20 mA	-1999 to +9999
Linear current 4 to 20 mA	-1999 to +9999 ⁽²⁾
Input type selection	programmable
Decimal point selection	programmable
Digital filter	programmable
Input calibration	programmable
Outputs	(up to 2 outputs)
Relay electromechanical	5A/250V with NO/NC contact
Solid state relay	SSR - 1A/250 VAC
Transistor gate	open collector - 40mA/40V
Output for external SSR	12(24)V/50mA
Operation modes	manual and automatic
Alarms	programmable
Current output (option)	4(0) to 20 mA, isolated
Serial interface (option)	RS485, isolated

Power supply			
Supply voltage	230 VAC, 110 VAC, or		
		90250 VAC/DC	
Low-voltage power supply	12 VDC, 12 VAC, 0	or 1224 VAC/DC	
Consumption		max. 3 VA	
Indication and keyboard			
Display digit height	20 mm ('D') or 32 mm ('E')		
Operating LED	C	one for each relay	
Keyboard	4 membrane keys		
Operating conditions			
Operating temperature		-10 to 65 °C	
Operating humidity		0 to 85 %RH	
Design and materials	'D'	'E'	
Mounting cut-out	93x45 mm	140x68 mm	
Dimensions	96x48x120 mm	144x72x105 mm	
Weight	max. 300 g	max. 400 g	
Case material Mounting Wiring		plastic in panel cut-out screw terminals	

⁽¹⁾ Other voltage ranges can be obtained using two external resistors

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

Ordering code

TC660* - G1.G5G5.G9.G11

Code	Feature or option	Code values
*	Variant (model)	D - 20 mm display height, E - 32 mm display height
G1	Power supply type	A - 230 VAC, B - 110 VAC, C - 90250 VAC/DC, D - 12 VDC, E - 12 VAC, P - 1224 VAC/DC
G5	Relay output type	X - none, C - relay NO/NC, D - SSR, E - open collector NPN, J - external SSR
G9	Interface ⁽³⁾	X - none, B - RS485
G11	Analog output ^(3,4)	X - none, E - 020 mA, F - 420 mA

⁽³⁾ May be not available for all low-voltage power supplies. Please, contact COMECO!

(4) Instead of alarm relay G5__! If mounted, it can be programmed as control or retransmission type!

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



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K1 🌰

Accuracy Measurement error

Temperature drift

Cold junction compensation RTD line compensation

Protection, front/terminals

Self-calibration

K20

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