



Programmable Process Indicator TC660

- From 20 to 45 mm high digits
- 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 the COMECO model RT384. 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 option. TC660 can be also equipped with an isolated **RS485 option**. The device can be ordered with 20mm or 45 mm LED display providing excellent visibility in many applications.



Technical specifications

Input - universal

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 "L - GOST"	0 to +600 °C
Linear voltage (1)	0 to 50 mV (-1999 to +9999)
Linear current	0 to 20 mA (-1999 to +9999)
Linear current	4 to 20 mA (-1999 to +9999)
Input type selection	through keyboard
Decimal point selection	through keyboard
Digital filter	programmable
Input calibration	through keyboard
Outputs	

Relay electromechanical Solid state relay (optional) Transistor gate (optional)

Transistor gate (optional)
Operation modes
Alarms
Current output (optional)
Serial interface (optional)

2 x 5A/250Vwith NO/NC contact SSR – 1A/250 VAC Open collector - 40mA/40V or TTL manual and automatic programmable 4(0) to 20 mA, isolated RS 485, isolated

 $\ensuremath{^{(1)}}$ Other voltage ranges can be obtained using two external resistors

Accuracy

Measurement error	0.3 % from span
Temperature drift	negligible
Self-calibration	Automatic software
Cold junction compensation	Automatic software
RTD line compensation	Automatic software

Power supply

Supply voltage	220(110)VAC or low-voltage
Consumption	Max. 3 VA

Indication and keyboard

20(D-model) or 45(E-model)
one for each relay
4 membrane keys

Operating conditions

Operating temperature	-10 to 65 °C
Operating humidity	0 to 85 %RH

Construction	Model "D"	Model "E"
Mounting cut-out	93x45 mm	140x68 mm
Front dimensions (W x H x D) Maximum weight	96x48x120 mm 300 g	144x72x105 mm 400 g
Mounting Wiring Case material		Panel mounting Screw terminals Plastic
Protection front/terminals		IP-54 / IP-20

Ordering code



TC660* - G1.G5G5.G9.G11

Code	Feature or option	Code values
*	Variant (model)	D - 20mm display height, E - 45mm display height
G1	Power supply	A - 220 VAC, B - 110 VAC, D - low-voltage DC ⁽²⁾ , E - low-voltage AC ⁽²⁾ ,
G5	Relay output type	C - relay NO/NC, D - SSR, E - open collector NPN, G - TTL
G9	Interface (3)	X - none, B - RS 485
G11	Analog output (3,4)	X - none, E - 020 mA, F - 420 mA

⁽²⁾ Specify the exact voltage when order!

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

⁽³⁾ Contact COMECO far availability. Not available with low-voltage power supply!

⁽⁴⁾ Instead of alarm relay G5__!