



220 VAC ± 10%

Max. 3 VA

## **Precise Digital Thermometer TC400**

- 5-digit LED display
- 4-wire thermoresistance input
- Isolated input
- Compensating measuring method
- Measure resistance and temperature
- Resolution up to 0.01 °C
- Device and sensor calibration
- Automatic "zero drift" elimination
- Optional digital interface

TC400 is a microprocessor process-indicator especially suited for precise temperature measurement using standard thermoresistive sensors. The device features a 4-wire isolated input that can accept signals from various platinum, copper or nickel thermoresistances. A 5digit bright LED display indicates RTD resistance or corresponding temperature, depending on programmable display mode. Device software allows two different types of calibration: separately (as for resistance) and together with RTD (as for temperature).

An optional RS232 serial digital interface is available allowing a connection to PC. The high measurement precision and the communication option make TC400 and excellent choice for both laboratory and industrial measurement as well as testing and calibration procedures.



## **Technical specifications**

Input	(4-wire)	
Thermoresistive linear Thermoresistive nonlinear RTD resistance at 0 ° C Norm Input range I Input range II Input signal type selection Isolation	Cu50, Cu53, Cu100 Pt46, Pt50, Pt100 By request DIN, GOST or other by request -50.00 to +200.00 °C -50.0 to +850.0 °C Keyboard selectable Optical, 1500 VAC	
Accuracy		
Measurement error* Non-linearity Temperature drift	0.02 % from span 0.01 % from span 0.005 % from span for 1 °C	
Digital interface (optional)		
Output type Output function	RS232, isolated Connection to PC	
* If ambient temperature is within the range from 10 to 40 90		

	Operating temperature	-10 to 65 °C
	Operating humidity	0 to 85 %RH
	Display and keyboard	
	Digital display	5 digit LED - 14mm
_	Display resolution	1, 0.1or 0.01 - keyboard selectable
	Keyboard	3 membrane keys
_	Design and materials	
	Case material	Plastic
	Mounting	In panel cut-out 93x45 mm
_	Wiring	Screw terminals
_	Dimensions	96 x 48 (front) x 110 mm
	Weight	Max. 350 g
	Protection front/terminals	IP-54 / IP-20

## **Ordering code**



TC400 - G2.G3.G6.G9

Power supply Supply voltage

Consumption

Operating conditions

Code	Feature or option	Code values
G2	Display type	B - LED, C - LED - bright
G3	Input range	C - minus 50.0 to 850.0 °C, D - minus 50.00 to 200.00 °C
G6	Nonlinear input type (1)	BA - Pt46 (GOST), BB - Pt50 (w=1.385), BC - Pt50 (w=1.391), BD - Pt100 (w=1.385), BE - Pt100 (w=1.391)
G9	Interface (2)	X - none, A - isolated RS 232

<sup>&</sup>lt;sup>(1)</sup>Linear input conversion is always included in device software

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

<sup>\*</sup> If ambient temperature is within the range from 10 to 40 °C

<sup>(2)</sup> Contact COMECO for availability!