

Battery-Powered Thermometer TIB100

- ◆ Operates with TSEC temperature probes
- ◆ Direct in-process mounting
- ◆ All stainless steel design
- ◆ 4-digit 18 mm LCD display
- ◆ Captures minimum and maximum readings
- ◆ Powered by 2 AA batteries
- ◆ 20000 hours average battery life
- ◆ Programmable display ranges and alarms
- ◆ User calibration available
- ◆ Selectable temperature units

COMECO's TIB100 is a digital temperature indicator, designed for direct control over temperature processes when coupled with a TSEC or other compatible temperature probe. This model combines the power supply independence of the bimetallic/gas thermometers and the advantages of the digital temperature measuring instruments. TIB100 is a programmable device and allows current, minimum, and maximum temperature readings, alarm settings, unit selection, and user calibration.



Technical specifications

Input

Input (sensor) type	Pt100, Pt500 ⁽¹⁾ , Pt1000
Measurement range	min. -50.0...max. 600 °C (min. -58.0...max. 1112.0 °F)

Accuracy

Display measurement error	≤ ± 0.3% of span
Non-linearity	within measurement error
Hysteresis	within measurement error
Repeatability	within measurement error
Temperature drift	0.005% from span for 1 °C

Indication and controls

Digital display	4-digit LCD, 18 mm
Display resolution	0.1 or 1 °C, programmable
Display functions	on/off, °C/°F/K, min/max, auto off
Keyboard	3 membrane keys
Device calibration	through the keyboard
Alarms	2 programmable alarms on display

Power supply

Supply voltage	3 V from 2 batteries AA 1.5 V ⁽²⁾
Battery life	up to 20000 h ⁽³⁾
Battery state control	automatic
Auto-power-off time	0...100 min, programmable

Operating conditions

Ambient temperature	-10...50 °C
Ambient humidity	0...85 %RH

Design and materials

Case material	stainless steel
Mounting	on probe top ⁽⁴⁾
Probe connection	G3/8", 3/8" NPT, G1/2", 1/2" NPT, M16x1.5, M18x1.5, or welding ⁽⁵⁾
Dimensions	axial: approx. ø100x50 mm; radial: approx. 100x120x35 mm
Weight	max. 700 g (w/o batteries)
Protection class	IP65 (NEMA 4X)

⁽¹⁾ Ask for availability!

⁽²⁾ Not included

⁽³⁾ Depending on battery type, sensor, and operating mode

⁽⁴⁾ Order separately! Suitable for assembly are temperature probes type TSEC (see 'Temperature Probes').

⁽⁵⁾ Available only when an axial mounted probe is ordered.

Ordering code TIB100 - G6'6".G12'12"

Code	Feature or option	Code values
G6'6"	Input	BD - Pt100, BF - Pt500 ⁽¹⁾ , BG - Pt1000
G12'	Probe connection	Q0 - M16x1.5, Q1 - M18x1.5, Q3 - G3/8", Q4 - G1/2", Q9 - 3/8" NPT, Q10 - 1/2" NPT, Uxx - female thread (xx - same as for Qxx), W - welding ⁽⁵⁾ , Z - other (specify!)
G12"	Probe position	A - axial, R - radial underneath, RU - radial on top, RL - radial on the left, RR - radial on the right