

LCB 30 Basic

Multifunction temperature calibrator LCB 30 is an equipment suitable for all conditions and applications, covering different kind of industries. The LCB 30 multifunction is the most advanced equipment in its class. Designed to work in a few minutes, as a dry block and liquid bath. Thanks to the wide variety of inserts available, it allows you to calibrate any probe or thermocouple. The LCB 30 has a temperature range of $-35^{\circ}\text{C} \dots 165^{\circ}\text{C}^*$ ($-31^{\circ}\text{F} \dots 329^{\circ}\text{F}^*$), stability of 0.01°C (0.018°F) and accuracy of 0.1°C (0.18°F).



APPLICATIONS

Calibration Laboratories
Testing Labs
Universities / R & D
Chemical / Pharmaceutical Industry
Suitable use in the food industry
Easy maintenance and service

HIGHLIGHTS

Fast Response Time
Temperature range $-35 \dots 165^{\circ}\text{C}^*$
All in one: dry block and liquid bath
Easy change between the calibration functions
Immersion Depth: 190 mm
Resolution: $0.1^{\circ}\text{C} / ^{\circ}\text{F}$
Stability: $0.01^{\circ}\text{C} / 0.018^{\circ}\text{F}$
Accuracy: $0.1^{\circ}\text{C} / 0.18^{\circ}\text{F}$
Uniformity: $0.03^{\circ}\text{C} / 0.054^{\circ}\text{F}$
Portable unit
3 Years Warranty

General Information

User interface with double display resolution 0.1
All in one equipment (Dry Block/ Liquid Bath)
Intuitive operation of the calibration functions
Robust against damage
Menu adjustable with 10 calibration points for best performance
Communication RS485 Modbus RTU (connector DB9) Optional
Stirrer speed controlled by potentiometer
Top level performance



Technical Data

Operating Temperature Range(°C)	-35...165°C* /-31 F ...329 F
Accuracy	0.1°C / 0.18 F
Resolution	0.1 °C / F
Reference temperature sensor	Internal
Calibration Volume	Ø 60mm x 190 mm
Warm-Up time	From -5 to 100°C: 15 Minutes / From 23 to 212 F: 15 Minutes
Cooling time	From 25 to -25°C :20 Minutes /From 77 to -13 F: 20 Minutes
Housing and assembly	Portable
Dimensions W x L x H (mm)	250 x 370 x 400 mm
Weight (kg)	12.8 kg Approx.
Supply	100 ... 234 Vac 50/60 Hz
Power Consumption	Approx. 310 W

LIQUID BATH**		DRY BLOCK	
Temperature Stability	±0.01 °C / ± 0.018 F	Temperature Stability	±0.01 °C / ± 0.018 F
Uniformity	±0.03 °C / ± 0.054 F	Uniformity	±0.05 °C / ± 0.09 F
Accuracy	0.1 °C / 0.18 F	Insert Dimensions	59.5mm x165mm
Well capacity	0.7 liters	Optional Inserts	
			1 x Ø 3,5 /1 x Ø 6,5/ 1 x Ø 8,5/ 1 x Ø 10,5 mm
			2 x Ø 3,5 /2x Ø 4,5/ 2 x Ø 6,5/ 2 x Ø 8,5/ 2 x Ø 10,5 mm
			3 x Ø 3,5 /3x Ø 6,5/ 3 x Ø 8,5/3 x Ø 10,5 mm
			2 x Ø 3,5 /1x Ø 4,5/ 1 x Ø 5,0/1 x Ø 5,5/1 x Ø 6,5/ 1 x Ø 8,5
			/1x Ø 9,0/ 1 x Ø 9,5/1 x Ø 10,5 mm
			Insert tub calibration bath with basket and stirrer
			Infrared calibration insert with external reference sensor Ø 3 mm***
			Surface calibration insert. Temp range -25 to 150 °C / -13 to 302 F

*Minimum Temperature Range is 55 °C / 131 F, below ambient. Absolute minimum -35°C / -31 F

For using it silicone oil of 10 cSt is recommended // * Blackbody insert operating temp. range -20 ... 150°C

Scoope of delivery

Basic Instrument LCB 30 Basic

Power Cord EU, USA, Others

Teflon Magnetic Stirrer / Magnet extractor, and insert extractor (multifunfion version).

Manufacturing Traceable Calibration Certificate 3.1 (5 Points)

Instruction Manual

Drain Pump

3 Years of Warranty against factory defects

Optional

Multifunction Dry Block/ Liquid Bath

RS 485 ModBus RTU communications (software included, PC cable not included).

Trolley transport case with wheels and handle.

ENAC (ISO 17025) Calibration Certificate

PLA lid with 6 inserts

Several types of inserts (See the Dry Block Tecnical Data)

Teflon Magnetic Stirrer

