

# LCB 30 Advance

Multifunction temperature calibrator LCB 30 Advance is an equipment suitable for all conditions and applications, covering different kind of industries. The LCB 30 Advance 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 Advance has a temperature range of -35 °C ... 165 °C \* (-31 F ... 329 F) stability of 0.008 °C (0.008 F) accuracy of 0.1°C (0.18 F).



## General Information

Easy and intuitive 4.3-inch touch screen user interface  
 All-in-one equipment (Dry block/Liquid bath, blackbody, surface)  
 Intuitive handling of calibration functions  
 Robust against damage  
 Trend graph with resolution up to 0.1°C and time selection  
 Program functions with up to 8 segments  
 Multi-language Spanish, English, German, French, Italian  
 RS485 ModBus RTU communication (DB9 connector)  
 Touch screen controlled stirrer  
 World-class performance



## 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 ... 165°C\*

All in one Dry block and liquid bath

Easy change between the calibration functions

Immersion Depth: 190 mm

Resolution: 0,1/0,01/ 0,001°C / °F

Stability: 0.008 °C / 0.008 F

Accuracy: 0..1°C / 0.18 F

Uniformity: 0.03°C / 0.054 F

Portable unit

3 Years Warranty

## Technical Data

Operating Temperature Range(°C)	-35...165°C* /-31 F ...329 F
Accuracy	0,1°C /32,18 F
Resolution	0.1/ 0.01/ 0.001°C F (selectable).
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 -13F 20 Minutes
Housing and assembly	Portable
Dimensions An x La x Al (cm)	250 x 370 x 440 mm
Weight (kg)	12.8 kg Approx.
Supply	100 ... 234 Vac 50/60 Hz
Power Consumption	Approx 310 W

### LIQUID BATH\*\*

Temperature Stability	±0.01 °C /± 0.018 °C
Uniformity	±0.03 °C / ± 0.054 F
Accuracy	0.1 °C / 0.18 F
Well capacity	0.7 liters

### DRY BLOCK

Temperature Stability	±0.01 °C / ± 0.018 F
Uniformity	±0.05 °C / ± 0.09 F
Insert Dimensions	59.5mm x165mm
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 / 131F, below ambient. Absolute minimum -35°C / -31F

\*\*For using it silicone oil of 10 Cst is recommended

### Scoope of delivery

LCB 30 Advance Basic Instrument  
 Power Cable EU, USA, Others.  
 Teflon Magnetic Stirrer / Magnet extractor (multifunction version).  
 Manufacturing Traceable Calibration Certificate 3.1 (8 Points)  
 Instruction Manual  
 Drain Pump  
 PLA lid to hold probes with 6 holes  
 3 Years of Warranty against factory defects  
**Optional**  
 Multifunction Dry Block/ Liquid Bath  
 Trolley transport suitcase with wheels and handle.  
 ENAC (ISO 17025) Calibration Certificate  
 PLA lid to hold probes with 6 holes  
 Several types of inserts ( See the Dry Block Technical Data)  
 Teflon magnetic stirrer extractor (dry block version only).

