



# 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).

## 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



### 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



### 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**		DRY BLOCK	
Temperature Stability	±0.01 °C / ± 0.018 °C	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 / 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 (multifunton 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 Tecnical Data)  
Teflon magnetic stirrer extractor (dry block version only).

