

LHC 400 Basic

The LHC 400 Basic dry block temperature calibrator is a lightweight and compact device, suitable for all conditions and applications, covering different types of industries. The LHC 400 calibrator is the most advanced device in its class. Designed to work in just a few minutes, as a dry block. Thanks to the wide variety of inserts available, it allows the calibration of any probe or thermocouple. The LHC 400 has a temperature range of 40 ... 450 °C, stability 0.01°C and accuracy of 0.1°C.



APPLICATIONS

Calibration laboratories
Testing Laboratories
Universities / R&D Centers
Chemical/Pharmaceutical industry
Food industry
Maintenance and Service

HIGHLIGHTS

Fast response time
Temperature range 40 ... 450 °C
Immersion depth: 165 mm
Resolution: 0.1 °C over the entire range
Stability: 0.01 °C
Accuracy: 0.1 °C
Uniformity: 0.05 °C
Portable and manageable
3 Years Warranty



General information

User interface with dual display and 0.1 resolution

Intuitive handling of calibration functions

Robust against damage

Adjustable via menus with 10 calibration points for better adjustment

RS485 ModBus RTU communication (DB9 connector) Optional

Top-notch performance



Technical characteristics

Operating temperature range (°C)	40 ... 450 °C
Accuracy	0.1°C
Resolution	0.1 °C
Reference temperature	Internal
Calibration Volume	Ø 60mm x 165 mm
Warm-up time	From 50 ... 425 °C: 22 Minutes
Cooling time	From 425 ... 100 °C: 35 Minutes
Housing and mounting	Portable
Dimensions W x L x H (mm)	(W)270 x(L) 190 x(H) 280 + 32 (Handle) mm
Weight (kg)	8 kg
Feeding	100 ... 234 Vac 50/60 Hz
Power Consumption	Aprox 1.800 W

DRY BLOCK

Temperature stability	±0.01 °C	
Uniformity	±0.05 °C	
Insert size	59.5mm x165mm	Built in Aluminum

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

External insert for calibration of optical pyrometers (Blackbody)

includes hole for external sensor Ø 3 mm T^a range 50 ... 450 °C

Calibration insert for surface probes. T^a range 50 ... 400 °C

Standard delivery

Equipment LHC 400 Basic + Insert: 1 x Ø 3.5 /1 x Ø 6.5/ 1 x Ø 8.5/ 1 x Ø 10.5 mm

Power cord EU, USA, others.

Insert extractor

Traceable 5-point factory calibration certificate

Instruction manual

3 years warranty against manufacturing defects

Optional

Trolley case with wheels and handle.

ENAC calibration certificate (ISO 17025)

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

Various types of inserts (See section on technical characteristics of the dry block)