

# LHC 650 Basic

The LHC 650 Basic dry block temperature calibrator is a compact and lightweight device, suitable for all conditions and applications, covering different types of industries. The LHC 650 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 650 has a temperature range of 40 ... 650 °C, stability 0.05°C and accuracy of 0.3 °C.



## APPLICATIONS

Calibration laboratories  
Testing Laboratories  
Universities / R&D Centers  
Chemical industry / Petroleum  
Compatible with the naval industry  
Maintenance and Service

## HIGHLIGHTS

Compact design for on-site use  
Fast response time  
Temperature range 40 ... 650 °C  
Wide variety of inserts  
Immersion depth: 150 mm  
Resolution: 0.1 °C over the entire range  
Stability: 0.05 °C  
Accuracy: 0.3 °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 ... 650 °C
Accuracy	0.4°C
Stability	0.05°C
Resolution	0.1 °C
Reference temperature	Internal
Calibration Volume	Ø 28 mm x 150 mm
Warm-up time	From 50 ... 600 °C: 20 Minutes
Cooling time	From 600 ... 100 °C: 35 Minutes
Housing and mounting	Portable
Dimensions W x L x H (mm)	(L)270 x(W) 190 x(H) 280+ 32 (Handle) mm
Weight (kg)	8.20 kg
Feeding	100 ... 234 Vac 50/60 Hz
Power Consumption	Aprox. 1.200 W

**Chromed bronze inserts:**

Standard Insert: B: 1 x Ø 3.2 / 1 x Ø 5 / 1 x Ø 6.5 / 1 x Ø 10.5 mm

Insert size 27 mm x150 mm

**Optional inserts**

C: 1 x Ø 6.5 / 1x Ø 12.5 mm

D: 1 x Ø 4.5 / 1 x Ø 6.5/ 1 x Ø 10.5 mm

E: 1 x Ø 15.7 mm

F: 1 x Ø 17.5 mm

G: 1 x Ø 3.2 / 1 x Ø 5 / 1 x Ø 7 / 1 x Ø 10.5 mm

A: Unmachined (No drilling).

**Standard delivery**

Equipment LHC 650 Basic and Standard Insert Type B

Power Cord EU, USA, others

Insert extractor

Traceable calibration certificate 10 manufacturing points

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)