



LTR-90

Ultra-Cool Dry Block Calibrator



Features and Benefits

- -95 °C to 140 °C Ultra-Cool Dry Block Calibrator
- Stirling cooler technology: reaches -90°C in 80 min; -95 °C in 90 minutes
- Temperature stability of ± 0.015 °C
- Axial Uniformity 0.05°C Full Range
- Software interface with Kaye Validator for automatic sensor calibration utility
- Interchangeable insert to accommodate Reference Probe (IRTD) and up to 16 Thermocouples
- Rubber insulator cap to prevent frost buildup
- Ergonomics/industrial design with two-handle carry
- Conformance to Euramet/cg-13
- Weight: 16 kg (35 lbs.)

Dual Heater Zone

Active heater zone control compensates for differential temperatures between zones, and minimizes axial temperature gradients.

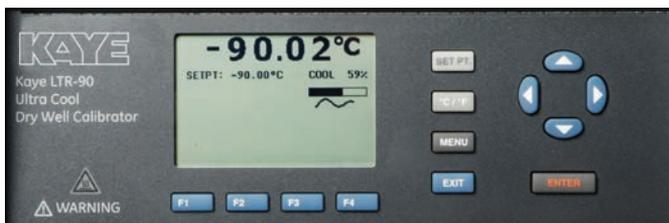
Stability Indicator

A stability indicator visually shows if the block temperature is stable and within the Stability Limits defined by the user.

When the well temperature is NOT within the Stability Limits, the indicator shows as a wavy line. When the temperature is within the Stability Limits, the indicator shows as a flat line; indicating that a measurement can be made.



Interchangeable insert to accommodate Reference Probe (IRTD) and up to 16 Thermocouples



Display and Control Panel



Rubber Insulator Cap, Insert and Clamp



Power and Interface Panel

Specifications

Temperature Range at 23°C

-95° to 140°C (-139°F to 284°F)

Display Accuracy

±0.2°C Full Range

Resolution

0.01°C

Accuracy with External Reference

± 0.05 °C Full Range

Stability

±0.015°C Full Range

Stabilization Time

15 min.

Axial Uniformity at 40 mm (1.6 in.)

±0.05°C Full Range

Radial Gradient

±0.01°C Full Range

Operating Conditions

0°C to 35°C

0% to 90% RH (non-condensing)

Heating Time

-95°C to 140°C: 40 min.

Cooling Time

23°C to -90°C: 80 min.

23°C to -95°C: 90 min.

140°C to 23°C: 60 min.

Immersion Well

160 mm (6.3 in) Depth

30 mm (1.18 in) Ø



Warranty and Disclaimer

The information in this document is based on our current tests, knowledge and experience. Because of the effect of possible influences in an application of the product, they do not exempt the user from their own tests, checks and trials. A guarantee of certain properties or a guarantee for the proper suitability of the product for a specific, especially permanent application can not be derived from our data. Liability is therefore excluded to that extent permitted by law. Any proprietary rights of third parties as well as existing laws and regulations must be observed by the recipient of the product on his own responsibility.

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