

Thông số kỹ thuật

7196B LN Comparison Calibrator



Tính năng chính

- Provides low-cost calibrations to -196°C .
- Uncertainty less than 2 mK, ensuring precise and reliable results.
- Simple and straightforward to use.

Tổng quan sản phẩm: 7196B LN Comparison Calibrator

The nominal boiling point of nitrogen is -196°C at one atmosphere of pressure. The defining triple point of argon is $-189.3442^{\circ}\text{C}$. While there is a difference between the nominal boiling point of nitrogen and the argon triple point, the difference can be corrected for mathematically, and an uncertainty of less than 2 mK from the actual argon triple point is achievable.

Fluke Calibration's LN_2 Comparison Calibrators consist of a vacuum-sealed stainless steel Dewar Flask, a high-purity copper block, and a precision-fit lid. The dewar is filled with LN_2 and the copper block is suspended in it; an SPRT is inserted into the block and a calibration is performed against your own calibrated SPRT. The **7196B-4** includes four 8-mm (0.32") wells. The **7196B-13** includes five 8-mm (0.32") wells and eight 6.35-mm (0.25") wells.

Fluke Calibration's LN_2 Comparison Calibrators are neither expensive nor complicated to use. If you need supporting data or would like to discuss the theory of operation of an LN_2 Comparison Calibrator, call Fluke Calibration today. (Or come to one of our [calibration training courses](#) and we'll show you.)

Thông số kỹ thuật: 7196B LN Comparison Calibrator

| Specifications | |
|---|--|
| Temperature | Nominal -196°C depending on atmospheric pressure |
| Thermal Wells | 7196B-4: four 8 mm (0.32") I.D. wells 7196B-13: five 8 mm (0.32") I.D. wells, eight 6.35 mm (0.25") I.D. wells Both blocks: 275 mm immersion from top of lid to boom of well, 150 mm immersion into copper block |
| Dimensions (outer diameter x height) | 168 mm x 406 mm (6.6 in O.D. x 16 in) |
| Temperature Stability | Typically better than 2 mK/20 min ^[1] |
| Temperature Uniformity | <0.0004 °C |
| Volume | 5.47 liters (1.45 gallons) |
| ^[1] The equilibrium temperature will change with the atmospheric pressure ($dT/dp \gg 0.085 \text{ mK/Pa}$). The actual temperature stability depends on atmospheric pressure stability. | |

Model



7196B-4

LN₂ Comparison Calibrator, 4 holes

7196B-13

LN₂ Comparison Calibrator, 13 holes

Fluke. *Giữ cho thế giới của bạn. không ngừng vận động.*

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