

LN ₂ Comparison Calibrators	Model 7196
Low-cost calibrations to –196°C	
Simple to use	
Uncertainty less than 2 mK	

If you need to do calibrations at the triple point of argon but you don't want the complexity and cost of using an argon triple point cell, Hart's Model 7196 LN₂ Comparison Calibrators will solve your problems. And they do it for less than half the price of other argon triple point simulators.

The nominal boiling point of nitrogen is –196°C at one atmosphere of pressure. The defining triple point of argon is –189.3442°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.

Hart's LN₂ Comparison Calibrators consist of a super-insulated glass dewar, a high-purity copper block, and a precision-fit lid. The dewar is filled with LN₂ and the copper block is suspended in it;

an SPRT is inserted into the block and a comparison calibration is performed against your own calibrated SPRT. The Model 7196-4 includes four 8 mm (0.32") wells. The Model 7196-13 includes five 8 mm (0.32") wells and eight 6.35 mm (0.25") wells.

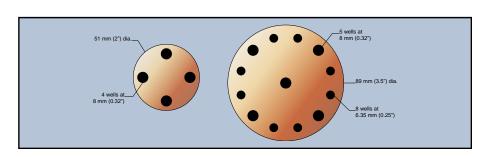
Hart's LN_2 Comparison Calibrators are neither expensive nor complicated to use. If you need supporting data or would like to discuss the theory of operation of an LN_2 Comparison Calibrator, call Hart Scientific today. Or come to one of our training courses and we'll show you.

Specifications	
Thermal Wells	7196-4 : four 8 mm (0.32") I.D. wells
	7196-13 : 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 bottom of well, 150 mm immersion into copper block
Dimensions	180 mm O.D. x 385 mm high
Temperature Uniformity	Typically better than 2 mK
Volume	3.5 liters of liquid nitrogen

Ordering Information

7196-4 LN₂ Comparison Calibrator, 4 holes

7196-13 LN₂ Comparison Calibrator, 13 holes



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