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Data Sheet

August 14, 2026

FLUKE / HART SCIENTIFIC

Hart Scientific 7312 Compact Constant Temperature Bath

The Fluke (Hart Scientific) 7312 is a floor-standing constant-temperature bath designed to maintain up to two triple point of water cells and for general temperature calibration. OEM user-guide specifications list operating range -5 C to 110 C, stability ± 0.001 C at 0 C (alcohol-water mix), uniformity ± 0.003 C at 0 C, immersion depth 19.5 in (496 mm), volume 5 gallons (19 liters), and weight 75 lb (34 kg). Maintaining TPW cells for ITS-90 realizations, comparison calibrations near 0 C, and general liquid-bath temperature calibration between -5 C and 110 C. Size: 12 in W x 24.5 in D x 32.25 in H (305 x 622 x 819 mm) Cutouts: Separate heating and refrigeration cutoffs independent of controller Bath Fluid Example Class: Alcohol-water mix for stated stability From Fluke Hart Scientific 7312 user guide specifications. Stability and uniformity values stated for alcohol-water mix; TPW duration assumes correctly formed ice mantle.



MODEL

**Fluke / Hart
Scientific 7312**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7312

LISTING

<https://aumictechlabs.com/products/7312-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Hart Scientific 7312 is a compact calibration bath known for its accuracy and stability. It works with calibrating temperature sensors and probes. This model offers excellent temperature uniformity, which is

crucial for reliable calibration results. Ideal for both laboratory and field use, the 7312 ensures precise temperature control, enhancing the accuracy of temperature-measuring instruments.

7312 Characteristics / Specifications

PARAMETER	VALUE
Temperature Range	-5 C to 110 C
Stability At 0 C	+/-0.001 C alcohol-water mix
Stability At 30 C	+/-0.004 C alcohol-water mix
Uniformity At 0 C	+/-0.003 C alcohol-water mix
Uniformity At 30 C	+/-0.006 C alcohol-water mix
TPW Duration Typical	Six weeks with correctly formed ice mantle
Set Point Accuracy At 0 C	+/-0.05 C
Set Point Repeatability	+/-0.01 C
Display Resolution	+/-0.01 C
Set Point Resolution	+/-0.002 C; 0.00003 C in high-resolution mode
Access Opening	4.75 in x 3.8 in (121 x 97 mm)
Immersion Depth	19.5 in (496 mm)
Volume	5 gallons (19 liters)
Power 115 V Version	115 VAC +/-10% 60 Hz
Power 230 V Version	230 VAC +/-10% 50 Hz
Size	12 inWx 24.5 inDx 32.25 in H (305 x 622 x 819 mm)
Weight	75 lb (34 kg)
Interface Standard	RS-232
Interface Optional	IEEE-488
Controller Display	8-digit LED
Cutouts	Separate heating and refrigeration cutoffs independent of controller
Bath Fluid Example Class	Alcohol-water mix for stated stability

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list operating range -5 C to 110 C, stability +/-0.001 C at 0 C (alcohol-water mix), uniformity +/-0.003 C at 0 C, immersion depth 19.5 in (496 mm), volume 5 gallons (19 liters), and weight 75 lb (34 kg).

Applications

Maintaining TPW cells for ITS-90 realizations, comparison calibrations near 0 C, and general liquid-bath temperature calibration between -5 C and 110 C.

Key Features

- Solid-state microcontroller temperature control
- Independent cutouts protecting TPW cells from freeze or overheat
- RS-232 standard with optional IEEE-488
- Eight-digit LED display and four key switches
- Compact low-cost design relative to large calibration baths

Technical Specifications

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Notes

From Fluke Hart Scientific 7312 user guide specifications. Stability and uniformity values stated for alcohol-water mix; TPW duration assumes correctly formed ice mantle.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.