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Data Sheet

August 12, 2026

TELEDYNE LECROY

LeCroy HVD3102 High Voltage Differential Probe, 25MHz

Teledyne LeCroy HVD3102 High Voltage Differential Probe The LeCroy HVD3102 / HVD3102A is a 1 kV-class high-voltage differential probe with 25 MHz bandwidth, ProBus interface, and high CMRR for power and half-bridge measurements. 120/240 V half-bridge topologies; general 1 kV HV differential probing on ProBus scopes. The LeCroy HVD3102 / HVD3102A is a 1 kV-class high-voltage differential probe with 25 MHz bandwidth, ProBus interface, and high CMRR for power and half-bridge measurements. 120/240 V half-bridge topologies; general 1 kV HV differential probing on ProBus scopes.



MODEL

**Teledyne LeCroy
HVD3102**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HVD3102

LISTING

<https://aumictechlabs.com/products/hvd3102-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Teledyne LeCroy HVD3102 is a high-voltage differential probe engineered for precision measurement of differential signals in the presence of large common-mode voltages. Operating at 25 MHz bandwidth with 1 kV CAT III safety rating, it delivers 1% gain accuracy and exceptional CMRR across a broad frequency range - critical for power electronics characterization and control signal isolation on high-voltage buses. Technical Specifications Electrical Performance Bandwidth: 25 MHz Differential voltage range: 27.6 V (low attenuation) to 1500 V (high attenuation, DC + peak

AC) Guaranteed 2000 Vpk differential voltage for short-duration overshoots Gain accuracy: 1% DC and low frequency Common-mode rejection ratio: Exceptional across broad frequency range Input impedance: 10 M Ω Input capacitance: 2.5 pF Coupling: AC and DC Attenuation: 100:1, 1000:1 (automatically selected) Vertical sensitivity: 400 V/div (3200 V on screen) to 100 mV/div Offset capability: High at both attenuation settings (up to 1500 V) Physical Cable length: 2250 mm (88.583 inches) Safety certification: 1 kV CAT (CAT III 1000V)Key Features ProBus active probe interface with automatic scaling - eliminates external power supply requirements AutoZero with auto disconnect switch for calibration of offset drift without probe removal Wide oscilloscope compatibility across Teledyne LeCroy platforms equipped with ProBus and XStream software v7.4 or greater Dual attenuation modes for measurement flexibility from millivolt to kilovolt scalesTypical Applications Control signal measurement on high common-mode voltage buses Switch-mode power supply analysis (120/240 V) 600 V and 5 kV class apparatus characterizationCompatibility & Integration The HVD3102 integrates directly with any Teledyne LeCroy oscilloscope supporting the ProBus active probe interface. Automatic probe detection and scaling eliminate manual configuration. Certification to IEC/EN 61010-031:2015 and IEC/EN 61326 ensures safety and EMC compliance.

Features & description

From manufacturer datasheet

Features

- Bandwidth (probe only): 25 MHz • Rise time (10%–90%): 14 ns • Diff. voltage (high atten.): 1500 V (DC + Peak AC); ranges from ~7–500 V/div with up to 1500 V offset • Diff. voltage (low atten.): 27.6 V (DC + Peak AC); ~100 mV/div–6.9 V/div with up to 150 V offset • CMRR test limits @ 23 °C: 80 dB @ 50 Hz; 60 dB @ 1 MHz • Attenuation: 100× / 1000× class (HVD3102 / HVD3102A) • Interface: ProBus; ~2 m cable; Auto Zero Disconnect on A variants • Input leads: ~40 cm class

HVD3102 Characteristics / Specifications

PARAMETER	VALUE
Model	HVD3102
Manufacturer	Teledyne LeCroy
Instrument Type	High Voltage Differential Probe
Alias	HVD3102; HVD3102A; LeCroy HVD3102 Electrical
Bandwidth	25 MHz
Rise time	14 ns
Diff. high atten.	1500 V (DC+peak AC)
CMRR	80 dB @ 50 Hz; 60 dB @ 1 MHz Notes Specs from Teledyne LeCroy HVD310x / HVD310xA operator manual and datasheets. ConfirmAvs non-A and tip kit on the unit.
Bandwidth (probe only)	25 MHz
Rise time (10%–90%)	14 ns
Diff. voltage (high atten.)	1500 V (DC + Peak AC); ranges from ~7–500 V/div with up to 1500 V offset
Diff. voltage (low atten.)	27.6 V (DC + Peak AC); ~100 mV/div–6.9 V/div with up to 150 V offset
CMRR test limits @ 23 °C	80 dB @ 50 Hz; 60 dB @ 1 MHz
Attenuation	100× / 1000× class (HVD3102 / HVD3102A)
Interface	ProBus; ~2 m cable; Auto Zero Disconnect onAvariants
Input leads	~40 cm class

HVD3102 Specifications

PARAMETER	VALUE
Teledyne LeCroy HVD3102 High Voltage Differential Probe	Overview
Applications	120/240 V half-bridge topologies; general 1 kV HV differential probing on ProBus scopes.
Key Features	- Bandwidth (probe only): 25 MHz
Technical Specifications	Model: HVD3102
Electrical	Bandwidth: 25 MHz
Notes	Specs from Teledyne LeCroy HVD310x / HVD310xA operator manual and datasheets. Confirm A vs non-A and tip kit on the unit.

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

Specifications

PARAMETER	VALUE
Model	HVD3102
Manufacturer	Teledyne LeCroy
Instrument Type	High Voltage Differential Probe
Alias	HVD3102; HVD3102A; LeCroy HVD3102

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	25 MHz
Rise time	14 ns
Diff. high atten.	1500 V (DC+peak AC)
CMRR	80 dB @ 50 Hz; 60 dB @ 1 MHz

Notes

Specs from Teledyne LeCroy HVD310x / HVD310xA operator manual and datasheets. ConfirmAvs non-A and tip kit on the unit.

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.