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Data Sheet

August 12, 2026

LECROY

LeCroy AP031 High-Voltage Differential Probe, 15MHz

Teledyne LeCroy AP031 High-Voltage Differential Probe The AP031 is a battery-powered active differential probe for floating HV measurements on any 1 M Ω oscilloscope without opto-isolators or isolating transformers. 15 MHz bandwidth; selectable $\div 10$ / $\div 100$; 700 V class. The AP031 is a battery-powered active differential probe for floating HV measurements on any 1 M Ω oscilloscope without opto-isolators or isolating transformers. 15 MHz bandwidth; selectable $\div 10$ / $\div 100$; 700 V class.



MODEL

Lecroy AP031

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AP031

LISTING

<https://aumictechlabs.com/products/ap031-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The LeCroy AP031 is a high-voltage differential probe that measures differential signals in circuits with high common-mode voltages present. It enables direct measurement between two circuit points without ground reference, eliminating ground loops and signal interference while rejecting common-mode signals with precision. The probe operates across a 15 MHz bandwidth and supports dual attenuation ranges, making it suitable for power electronics, switched-mode supplies, and high-voltage circuit analysis where reference voltage may float significantly above or below ground. Technical Specifications Measurement Range: 1:100 attenuation: ± 700 V (DC + peak AC) or 500 V r.m.s. differential mode; ± 700 V common mode 1:10 attenuation: ± 70 V (DC +

peak AC) or 50 V r.m.s. differential mode Maximum absolute voltage: ± 1400 V (DC + peak AC) or 1000 V r.m.s. Electrical Characteristics: Bandwidth: 15 MHz (-3 dB) Input impedance: $4\text{ M}\Omega$ Input capacitance: 5.5 pF total; 10 pF each side to ground Output offset (typical): $< \pm 5$ mV Output noise (typical): 1.5 to 2 mV Common-mode rejection: 86 dB @ 50 Hz, 66 dB @ 20 kHz, 56 dB @ 200 kHz Physical & Environmental: Dimensions: 168 mm $\times$ 62 mm $\times$ 20 mm Weight: 42 g (probe only); 285 g (with batteries and casing) Cable: 1.3 m total; BNC 95 cm (RG58/U), input lines 45 cm Operating temperature: -10°C to 40°C Storage temperature: -30°C to 70°C Operating altitude: up to 2000 m Power: four 1.5 V AA batteries or 6 V d.c. / 60 mA mains adapter Key Features Dual attenuation modes ($\div 10$, $\div 100$) accommodate wide measurement ranges $4\text{ M}\Omega$ input impedance minimizes circuit loading Low input capacitance (5.5 pF) preserves signal integrity CAT III rated; EN61010-1:2010 and EN61010-031/A1:2008 certified Battery or external supply operation Includes two color-coded safety hooks (4 mm compatible) Compatibility & Integration Connects directly to any $1\text{ M}\Omega$ input oscilloscope. Requires optional AP-1M adapter for $50\text{ }\Omega$ only inputs. BNC output standard. Status: Obsolete. Replacement model: T3HVD1500-70.

Features & description

From manufacturer datasheet

Features

• Bandwidth: 15 MHz • Attenuation: $\div 10$ / $\div 100$ • Differential mode range ($\div 10$): ± 70 V DC + Peak AC • Differential mode range ($\div 100$): ± 700 V DC + Peak AC • Common mode range: ± 700 V DC + Peak AC • Maximum input voltage class: 700 V • Input resistance: 4 M Ω • CMRR at 50 Hz: 86 dB • CMRR at 200 kHz: 56 dB • Power: four AA batteries • Host: any oscilloscope with 1 M Ω input • Safe floating measurements without opto-isolators

Applications

• Safe floating measurements with grounded oscilloscope • General HV differential probing on non-ProBus scopes • Battery-powered field / bench HV differential work

AP031 Characteristics / Specifications

PARAMETER	VALUE
Model	AP031
Manufacturer	Teledyne LeCroy
Instrument Type	High-Voltage Differential Probe
Alias	AP031; LeCroy AP031
Bandwidth	15 MHz
Attenuation	÷10 / ÷100
Common mode range	±700 V DC + Peak AC
Input resistance	4 MΩ
CMRR 50 Hz	86 dB
CMRR 200 kHz	56 dB
Power	four AA batteries
Host impedance	1 MΩ Notes Specs from Teledyne LeCroy AP031 / High Voltage Differential Probe datasheet.
Differential mode range (÷10)	±70 V DC + Peak AC
Differential mode range (÷100)	±700 V DC + Peak AC
Maximum input voltage class	700 V
CMRR at 50 Hz	86 dB
CMRR at 200 kHz	56 dB
Host	any oscilloscope with 1 MΩ input

AP031 Specifications

PARAMETER	VALUE
Key Features	- Bandwidth: 15 MHz
Technical Specifications	Model: AP031
Notes	Specs from Teledyne LeCroy AP031 / High Voltage Differential Probe datasheet.

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	AP031
Manufacturer	Teledyne LeCroy
Instrument Type	High-Voltage Differential Probe
Alias	AP031; LeCroy AP031

Bandwidth: 15 MHz

Attenuation: $\div 10$ / $\div 100$

Diff range $\div 10$: ± 70 V DC+peak AC

Diff range $\div 100$: ± 700 V DC+peak AC

Specifications

PARAMETER	VALUE
Common mode range	± 700 V DC+peak AC
Input resistance	4 M Ω
CMRR 50 Hz	86 dB
CMRR 200 kHz	56 dB
Power	4 $\times$ AA batteries
Host impedance	1 M Ω

Notes

Specs from Teledyne LeCroy AP031 / High Voltage Differential Probe datasheet.

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.