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Data Sheet

August 12, 2026

LECROY

LeCroy ADP305 High-Voltage Differential Probe, 1400 V, 20MHz

Teledyne LeCroy ADP305 High-Voltage Differential Probe The ADP305 isaProBus high-voltage active differential probe for high-speed floating voltages in power electronics. OEM bandwidth is 100 MHz (listing titles sometimes incorrectly say 20 MHz—that is ADP300). 1400 V peak differential; 1000 V rms CAT III common mode; EN 61010 CAT III. The ADP305 isaProBus high-voltage active differential probe for high-speed floating voltages in power electronics. OEM bandwidth is 100 MHz (listing titles sometimes incorrectly say 20 MHz—that is ADP300). 1400 V peak differential; 1000 V rms CAT III common mode; EN 61010 CAT III.



MODEL

LeCroy ADP305

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ADP305

LISTING

<https://aumictechlabs.com/products/adp305-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LeCroy ADP305 is an active differential probe engineered for precision measurement of high-speed floating voltages in power electronics applications. It delivers 100 MHz bandwidth with 1400 Vpeak differential measurement capability and 1000 VRMS common mode voltage per input to ground (CAT III). The probe integrates with Teledyne LeCroy oscilloscopes via ProBus interface, enabling full remote control of attenuation, offset, and bandwidth limit directly from the oscilloscope front panel. Measurement setups are saved and recalled with automatic scale factor

correction. Built to EN61010 Category III safety standards for fixed-installation and portable equipment use.

Technical Specifications

Bandwidth: 100 MHz (20 MHz bandwidth limit filter selectable via oscilloscope interface)

Maximum Differential Voltage: 1400 V_{peak}

Common Mode Voltage: 1000 V_{RMS} per input to ground

Common Mode Rejection Ratio: 80 dB at 50/60 Hz

AC Noise (referenced to input): 50 mV_{RMS}

Attenuation: $\div 100$ or $\div 1000$ (automatically selected)

Sensitivity: 200 mV/div to 350 V/div

Output Impedance: 1 M Ω

Operating Temperature: 0°C to 50°C

Maximum Relative Humidity: 80% (up to 31°C)

Maximum Altitude: 2000 meters

Weight: 0.85 lbs

Key Features

ProBus interface with full remote control capability via oscilloscope front panel or RS-232/IEEE-488 commands

Auto zero function removes DC offset from differential amplifier output on live circuits

Smart offset removes DC bias voltage while maintaining DC coupling

Automatic scale factor adjustment when connected to compatible oscilloscopes

Typical Applications

Power electronics voltage measurements

High-speed floating voltage acquisition

Multi-channel differential sensing in fixed installations

Compatibility & Integration

Designed for Teledyne LeCroy oscilloscopes with ProBus interface: LC-Series, LT-Series, WS-400 Series, WS-Xs Series, WR6000(A) Series, WR-Xi Series, WP 900-Series, WP7000(A) Series. Firmware version 8.5 or higher required for LT or LC series.

Features & description

From manufacturer datasheet

Features

- Bandwidth: 100 MHz • Differential voltage: 1400 V peak • Common mode voltage: 1000 V rms CAT III
- Attenuation: $\div 100$ / $\div 1000$ (automatically selected by scope) • Low-frequency accuracy (probe only): 1% of reading • CMRR at 50/60 Hz: 80 dB (10,000:1) • CMRR at 100 kHz: 50 dB (300:1) • Max slew rate referenced to input: 300,000 V/ μ s • AC noise referenced to input: 50 mV rms • Input impedance between inputs: 8 M Ω , 6 pF • Input impedance each input to ground: 4 M Ω , 1 pF • Sensitivity: 200 mV/div to 350 V/div • Interface: ProBus, 1 M Ω • Overall length: 2 m • Input connectors: 4 mm shrouded banana • Operating temperature: 0 °C to 50 °C • Safety: EN 61010 CAT III • Full remote control via ProBus host

Applications

- High-speed power-converter floating measurements • Gate-drive / switching-node differential capture within voltage ratings • ProBus remote-controlled HV differential probing • Use AP-1M when host scope is 50 Ω -only

ADP305 Characteristics / Specifications

PARAMETER	VALUE
Model	ADP305
Manufacturer	Teledyne LeCroy
Instrument Type	High-Voltage Differential Probe
Alias	ADP305; AP305; LeCroy ADP305
Bandwidth	100 MHz
Differential voltage	1400 V peak
Common mode voltage	1000 V rms CAT III
Attenuation	÷100 / ÷1000 (automatically selected by scope)
LF accuracy	1% of reading
CMRR 50/60 Hz	80 dB
CMRR 100 kHz	50 dB
Max slew rate	300000 V/μs
AC noise	50 mV rms
InputZbetween inputs	8 MΩ 6 pF
InputZto ground	4 MΩ 1 pF
Sensitivity	200 mV/div to 350 V/div
Cable length	2 m
Operating temperature	0 °C to 50 °C
Interface	ProBus Notes Specs from Teledyne LeCroy ADP30X datasheet. Listing "20 MHz" is incorrect for ADP305; OEM bandwidth is 100 MHz.
Low-frequency accuracy (probe only)	1% of reading
CMRR at 50/60 Hz	80 dB (10,000:1)
CMRR at 100 kHz	50 dB (300:1)
Max slew rate referenced to input	300,000 V/μs
AC noise referenced to input	50 mV rms
Input impedance between inputs	8 MΩ, 6 pF

PARAMETER	VALUE
Input impedance each input to ground	4 M Ω , 1 pF
Overall length	2 m
Input connectors	4 mm shrouded banana
Safety	EN 61010 CAT III

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 °C to 50 °C - Safety: EN 61010 CAT III - Full remote control via ProBus host
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Instrument Type	High-Voltage Differential Probe
Alias	ADP305; AP305; LeCroy ADP305
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Differential voltage	1400 V peak
Common mode voltage	1000 Vrms CAT III
Attenuation	÷100 / ÷1000
LF accuracy	1% of reading
CMRR 50/60 Hz	80 dB
CMRR 100 kHz	50 dB
Max slew rate	300000 V/μs
AC noise	50 mV rms
InputZbetween inputs	8 MΩ 6 pF
InputZto ground	4 MΩ 1 pF
Sensitivity	200 mV/div to 350 V/div
Cable length	2 m
Interface	ProBus Notes Specs from Teledyne LeCroy ADP30X datasheet. Listing "20 MHz" is incorrect for ADP305; OEM bandwidth is 100 MHz.

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	
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InputZto ground	4 MΩ 1 pF
Sensitivity	200 mV/div to 350 V/div
Cable length	2 m
Operating temperature	0–50 °C
Interface	ProBus
Notes	
Specs from Teledyne LeCroy ADP30X datasheet. Listing “20 MHz” is incorrect for ADP305; OEM bandwidth is 100 MHz.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.