

ADP300 ADP305 High Voltage Differential Probes



Key Features

- 20 MHz and 100 MHz bandwidths
- 1,000 VRMS common mode voltage
- 1,400 V_{peak} differential voltage
- EN61010 Cat III
- 80 dB CMRR at 50/60 Hz
- ProBus® system
- Full remote control

ADP30X high-voltage active differential probes are safe, easy-to-use probes ideally suited for measuring power electronics. The ADP300 is good for troubleshooting low-frequency power devices and other circuits where the reference potential is elevated from ground or the location of ground is unknown. The ADP305 is designed for measuring the high-speed floating voltages found in today's power electronics.

Easy-to-use

With the ProBus interface, the ADP30X becomes an integral part of the oscilloscope. The attenuation, offset, and bandwidth limit are all controlled from the oscilloscope front panel or by using the remote control commands. This means the complete measurement setup can be saved and recalled by the oscilloscope, and all measurement values will be correct. The scope provides power to the probe, so there is no need to worry about a separate power supply or changing batteries.

Autozero

The ADP30X offset can be easily set to zero by pushing a button in the oscilloscope's coupling menu, even when connected to live circuits. This makes it easy to get accurate measurements.

Meets EN61010 Category III requirements

Safety is the top priority when you work around high-voltage signals. The ADP300 and ADP305 are both designed to the standards required for Installation Category III. This means in addition to being used on appliances and portable equipment (Cat II), they can be used in fixed-installation environments.

SPECIFICATIONS & ORDERING INFORMATION

Specifications

	ADP300	ADP305
Electrical Characteristics		
Bandwidth	20 MHz	100 MHz
Differential Voltage	1400 v peak	
Common Mode Voltage	1000 vrms Cat III	
Best Low-Frequency Accuracy (probe only)	1% of reading	
CMRR	50/60 Hz 80 dB (10,000:1)	100kHz 50 dB (300:1)
Max. Slew Rate (referenced to input)	60,000 V/us	300,000 V/us
AC Noise (referenced to input)	50 mVRMS	
Attenuation	÷100/÷1000 (automatically selected by scope)	
Input Impedance	Between inputs 8 M Ω , 6 pF	Each input to ground 4 M Ω , 1 pF
Sensitivity	1 V/div to 350 V/div	200 mV/div to 350 V/div

General Characteristics

Overall Length	2 meters
Input Connectors	4mm shrouded banana plug
Operating Temperature	0° C to 50° C
Max Altitude	2000 meters
Max Relative Humidity	80% (max 31° C)
Warranty	One year

Standard Accessories

Instruction Manual	ADP300
Certification of Calibration	
Plunger Hook Clip (1-Red, 1-Blue)	
Straps for Holding Probe	
All ADP300 Accessories	ADP305
Safety Spade (1-Red, 1-Blue)	
Plunger Clamp Clip (1-Red, 1-Blue)	
Plunger Jaw Clip (1-Red, 1-Blue)	
Safe Alligator Clip (1-Red, 1-Blue)	
Soft Accessory Case	

Ordering Information

Product Description	Product Code
1,400 V, 20 MHz High-Voltage Differential Probe	AP300
1,400 V, 100 MHz High-Voltage Differential Probe	AP305
Plunger Hook Clips (Quantity 2 - 1 Red, 1 Blue)	PK30X-1
Safety Alligator Clips (Quantity 2 - 1 Red, 1 Blue)	PK30X-2
Plunger Jaw Clips (Quantity 2 - 1 Red, 1 Blue)	PK30X-3
Plunger Clamp Clips (Quantity 2 - 1 Red, 1 Blue)	PK30X-4
Safety Spade Terminals (Quantity 2 - 1 Red, 1 Blue)	PK30X-5

Customer Service

Teledyne LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year. This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge

