
1 Overview

DESCRIPTION

The ADP30X family of high voltage active differential probes is safe, easy-to-use, and ideally suited for power measurements.

The 20 MHz ADP300 is perfect for troubleshooting low frequency power circuits, and other circuits where the reference potential is elevated from ground or the location of ground is unknown.

The 100 MHz ADP305 is designed for measuring high-speed floating voltages found in today's power electronics, like switching power supplies.

These probes can be used only on a LeCroy oscilloscope with firmware version 8.5 or higher. With the ProBus interface, the ADP30X becomes an integral part of the oscilloscope. For the ADP305, the attenuation, offset, and bandwidth limit are all controlled from the oscilloscope's front panel or by means of remote control commands. This means that the complete measurement setup can be saved and recalled by the oscilloscope and all measurement values will be correct. The oscilloscope provides power to the probe, so there is no need to worry about a separate power supply or changing batteries.

The sensitivity of the ADP300 ranges from 1 V/div to 350 V/div; and the sensitivity for the ADP305 ranges from 200 mV/div to 350V/div.

Attenuation is automatically selected by the oscilloscope to either 100 or 1000.

KEY BENEFITS

- True Differential Measurements
- EN 61010 1000 V CAT III Safety Compliance
- ProBus Interface with Automatic Scaling
- Auto-Zeroing

ADP30X Active Differential Probe

CONVENTIONS USED IN THIS MANUAL



The following conventions may appear in this manual:

Note

A Note contains information relating to the use of the product.

CAUTION

A Caution contains information that should be followed to avoid possible damage to the instrument or the device under test.

WARNING

A Warning alerts you to a potential hazard. Failure to adhere to the statement in a WARNING message could result in personal injury.

The following symbols may appear on the product:



CAUTION: Refer to accompanying documents

This refers you to additional information contained in this manual. The corresponding information in the manual is similarly denoted.



CAUTION: Risk of electric shock

This is a reminder that high voltage may be present and that appropriate caution should be taken.



This is the symbol for earth ground.

STANDARD ACCESSORIES

	ADP300	ADP305
Instruction Manual	x	x
Certification of Compliance	x	x
Hook and Loop Strap for holding probe	x	x
Plunger Hook Tip	x	x
Safety Alligator Clip		x
Plunger Jaw Clip		x
Plunger Clamp Clip		x
Spade Terminal		x
Soft Accessory Case		x

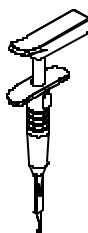
DESCRIPTION OF ACCESSORIES



WARNING

For electric shock protection, only attachment accessories rated for 1000 V Installation Category III, per EN 61010-1:1993 should be used with this product

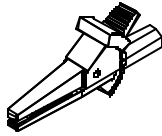
Plunger Hook Clip (1 Red, 1 Blue)



Insulated, 1000 V, CAT III. Designed to attach to wire leaded parts, the overall length is 117 mm (4.60 inches), and the hook extends 10 mm (0.41 inch) when the plunger is fully pressed.

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Safety Alligator Clip (1 Red, 1 Blue)



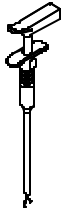
Insulated, 1000 V, CAT III. Designed to attach to large components, such as busbars and large bolts, the overall length is 90 mm (3.5 inches) and the jaw opens to 22 mm (0.87 inch) max.

Plunger Jaw Clip (1 Red, 1 Blue)



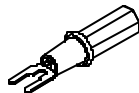
Insulated, 1000 V, CAT III. The clip is designed to securely grasp thick wires, cables, ground leads, rails, and even screw heads. The overall length is 134 mm (5.26 inches). The steel jaw extends 12 mm (0.48 inch) and opens to 25 mm (1 inch).

Plunger Clamp Clip (1 Red, 1 Blue)



Insulated, 1000 V, CAT III. Designed for attaching to hard-to-reach test points, the entire body is fully insulated. The overall length is 190 mm (7.5 inch). The clamp can grab leads, pins and wires up to 5 mm (0.2 inch) in diameter.

Spade Terminal



Insulated, 1000 V, CAT III. Designed to connect to terminal strips, posts, and screws, the overall length is 63mm (2.48 inch).

Soft Accessory Case

This can be used to carry probes and accessories. It can also be mounted on your oscilloscope for storing all your accessories and manuals. See Appendix B for installation instructions.

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