

Lecroy adp305 manual

I'm not robot!

Leading Specifications 20 MHz and 100 MHz bandwidth, 1,000 VRMS common mode voltage, 1,400 Vpeak differential voltage, EN61010 Cat III 80dB CMRR at 50/60 Hz, ProBus® system, Full remote control, Compatible with LC Series, LT Series, WS 400 Series, WS Xs Series, WR6000(A) Series, WR Xi Series, WP 900 Series, WP7000(A) Series, 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 high-speed 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. Operation Manual (QR Link) Hook and Loop Strap, Plunger Hook Tip Set, Red and Blue Safety Alligator Clip Set, Red and Blue Plunger Jaw Clip Set, Red and Blue Plunger Clamp Clip Set, Red and Blue Spade Terminal Set, Red and Blue Soft Case Page 1 Operator's Manual ADP300/305 Active Differential Probe... Page 3 Spare parts, replacement parts and repairs are warranted for 90 days. In exercising its warranty, Teledyne LeCroy, at its option, will either repair or replace any assembly returned within its warranty period to the Customer Service Department or an authorized service center. Operation11 Connecting the Probe to the Test Instrument11 Connecting the Probe to the Test Circuit11 Operation with a Teledyne LeCroy Oscilloscope12 Smart Offset12 Bandwidth Limit (ADP305 only)12 Auto Zero12 Remote Control Commands Operator's Manual Safety Instructions This section contains instructions that must be observed to keep this oscilloscope accessory operating in a correct and safe condition. You are required to follow generally accepted safety procedures in addition to the precautions specified in this section. The overall safety of any system incorporating this accessory is the responsibility of the assembler of the system. Page 6 ADP30x Probe Precautions To avoid personal injury or damage to property, review and comply with the following safety precautions. Use product only as specified. Do not overload. To avoid electric shock or fire hazard, do not apply any potential that exceeds the maximum rating of the probe and/or the probe accessory, whichever is less. 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 350 V/div. 20 MHz (ADP305 only) Interface ProBus Oscilloscope Compatibility Teledyne LeCroy LT or LC series oscilloscopes with firmware version 8.5 or higher; or X-Stream oscilloscopes. (Not available for 9300 series oscilloscopes) Warranted Characteristics Warranted characteristics are parameters with guaranteed performance. Unless otherwise noted, tests are provided in the "Performance Verification Procedure". Page 9 Operator's Manual Typical Characteristics Typical characteristics are parameters with no guaranteed performance. Tests for typical characteristics are not provided in the "Performance Verification Procedure." Bandwidth: ADP300 20 MHz ADP305 100 MHz Rise Time: ADP300 < 17.5 ns ADP305 < 3.5 ns... Page 10 ADP30x Probe Voltage vs Frequency Derating Curve Input Voltage and Burn Limit vs. Frequency NOTE: The voltage derating curve provides the maximum voltage that can be applied to the probe inputs without risking damage to the probe. The Burn Limit is the voltage limit that should be used when the input leads are being hand-held. Operator's Manual Typical CMRR vs. Frequency Standard Accessories The following accessories are included with each probe model: ADP300 ADP305 Instruction Manual Certification of Compliance Hook and Loop Strap for holding probe Plunger Hook Tip Safety Alligator Clip Plunger Jaw Clip... Page 12 ADP30x Probe Voltage Derating for ADP30x Standard Accessories Combined Probe and Accessory Accessory (Teledyne LeCroy P/N) Max Input Voltage (from either input to ground) Plunger Hook Clips (PK30X-1) 1000V CAT II (600V CAT III) Safety Alligator Clips (PK30X-2) 1000V CAT III... Page 13 Operator's Manual Description of Accessories Plunger Hook Clip (1 Red, 1 Blue) Insulated, 1000 V, CAT II. Designed to attach to wire leaded parts, the overall length is 158 mm (6.22 inches), and the hook extends 8 mm (0.31 inch) when the plunger is fully pressed. Safety Alligator Clip (1 Red, 1 Blue) Insulated, 1000 V, CAT III. Page 14 ADP30x Probe 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 160 mm (6.3 inch). The clamp can grab leads, pins and wires up to 5 mm (0.2 inch) in diameter. Operation Connecting the Probe to the Test Instrument The ADP30x series of probes has been designed for use with Teledyne LeCroy oscilloscopes equipped with the ProBus interface. When you attach the probe output connector to the scope's input connector, the scope will recognize the probe, set the scope input termination to 1 MΩ, and activate the probe control... 1 V/div to 350 V/div for the ADP300, and from 200 mV/div to 350 V/div for the ADP305. Some of the transition of the scale factor will result in a change of attenuation. Operator's Manual Remote Control Commands When attached to a Teledyne LeCroy oscilloscope equipped with ProBus interface, the ADP30x Active Differential Probe can be remotely controlled, along with the other oscilloscope functions. The control interface can be either the RS-232 or IEEE-488 (GPIB) buses. The commands that control the probe are described below. Response Format :BWL Example The following command sets the upper bandwidth of the ADP305 connected to channel 1 to 20 MHz. CMD\$="PR1:BWL 20M": CALL IBWRT(SCOPE%,CMD\$) NOTE: The PRx:Bandwidth Limit command is not available with model ADP300. 923079-00 Rev A... Operator's Manual Probe Coupling PRx:COUPLING, PRx:CPL Command/query The PRx:COUPLING command selects the coupling mode of the Description ADP30x probe. The PRx:COUPLING? query returns the coupling mode of the selected channel. Command :CouPLing := {PR1, Syntax PR2, PR3, PR4} := {DC, GND} Query Syntax :CouPLing? Response :CPL ... = {-100V to +100V} for 500 mV/div to 9.9 V/div = {-1000V to +1000V} for 10V/div to 99 V/div = {-1400V-4(V/Div setting)} to {1400V-4(V/Div setting)} for 100 V/div to 350 V/div ADP300: = {-100V to +100V} for 1-9.9 V/div = {-1000V to +1000V} for 10-99 V/div = {-1400V-4(V/Div setting)} to {1400V-4(V/Div... The PRx:VOLT_DIV? query returns the vertical sensitivity at the probe input of the specified channel. Command Syntax :Volt_DIV := {PR1, PR2, PR3, PR4} := {200 mV to 350 V} for ADP350 := {1 V to 350 V} for ADP300 Query Syntax :Volt_DIV? Response Format :VDIV Example... Before assuming that the probe is defective, perform the following troubleshooting procedures: 1. For Teledyne LeCroy LT and LC series scopes, verify that the firmware version is 8.5 or higher. 2. Waveform is inverted. — Make sure that the + lead (Red) is connected to the proper test point. Operator's Manual Returning a Defective Probe Contact your local Teledyne LeCroy service center for calibration or other service. If the product cannot be serviced on location, the service center will give you a Return Material Authorization (RMA) code and instruct you where to ship the product. The returned probe should be sent back to the regional customer care center without any accessories, manual, or case. Item Teledyne LeCroy P/N Alternate P/N ADP300 Exchange Unit AP300-PROBE-FRU ADP305 Exchange Unit AP305-PROBE-FRU Instruction Manual ADP30x-OM-E... Other than a Teledyne LeCroy oscilloscope, no special test equipment is required for the functional test. Test procedure 1. Connect the ADP300 or ADP305 to any vertical channel on the oscilloscope. 2. Select the channel to which the probe is connected. 3. Press the A button in the user interface menu. Stanford Research Model DS340 Leader LAG-120B Male-to-Male 50 Ω Cable BNC Coaxial Cable Pomona 5697-36 Calibration Fixture ProBus Extender Cable Teledyne LeCroy PROBUS- CF01 Banana Plug Adapter Female BNC-to-Dual Banana Pomona 1269 or Mueller Plug BU-00260 Insulated Banana Plug Insulated BNC-to-Shrouded... Page 27 Operator's Manual Preliminary Procedure 1. Connect the ADP30x under test to the female end of the ProBus Extension Cable. Connect the male end of the ProBus Extension Cable to any channel of the oscilloscope. 2. Turn the oscilloscope on and allow at least 30 minutes warm-up time before performing the Certification Procedure. Page 28 This completes the Performance Verification Procedure. Complete and file the Test Record, as required to support your internal calibration procedure. If the criteria in steps 14 or 19 are not met, contact your local Teledyne LeCroy service center. 923079-00 Rev A... Page 29 Performance Verification Test Record This record can be used to record the results of measurements made during the performance verification of the ADP300/ADP305 Active Differential Probe. Photocopy this page and record the results on the copy. File the completed record, as required by applicable internal quality procedures. Page 30 ADP30x Probe ADP300/ADP305 Test Record Serial Number: Asset or Tracking Number: Date: Technician: Equipment Used: CALIBRATION MODEL SERIAL NUMBER DUE DATE OSCILLOSCOPE DIGITAL MULTIMETER FUNCTION GENERATOR 1 The function generator used in this Performance Verification Procedure is used for making relative measurements. Operator's Manual Reference Information Differential Mode and Common Mode Differential amplifiers amplify the voltage difference that appears between the + input and - input. This voltage is referred to as the Differential Mode or Normal Mode voltage. The voltage component that is referenced to earth and is identical on both inputs is rejected by the amplifier. ADP30x Probe The first order term that determines the CMRR is the relative gain matching between the + and - input paths. To obtain high CMRR values, the input attenuators in a differential amplifier are precisely matched to each other. This matching includes the DC attenuation as well as the capacitance that determines the AC attenuation. Page 33 3 Meets Performance Criteria "B" limits of the respective standard; during the disturbance, product undergoes a temporary degradation or loss of function or performance which is self-recoverable. European Contact: Teledyne LeCroy Europe GmbH Waldhofer Str 104 D-69123 Heidelberg Germany Tel: (49) 6221 82700 &... Page 34 The probe is subject to disposal and recycling regulations that vary by country and region. Many countries prohibit the disposal of waste electronic equipment in standard waste receptacles. For more information about proper disposal and recycling of your Teledyne LeCroy product, please visit teledynelecroy.com/recycle. 923079-00 Rev A... Page 35 Operator's Manual RESTRICTION OF AZARDOUS SUBSTANCES This probe has been classified as Industrial Monitoring and Control Equipment, and is outside the scope of the 2011/65/EU RoHS Directive (Exempt until July 2017, per Article 4). ISO Certification Manufactured under an ISO 9000 Registered Quality Management System. Visit teledynelecroy.com to view the certificate. Ph: 800-909-7112 / 408-653-1260 customersupport@teledynelecroy.com psgsupport@teledynelecroy.com European Headquarters Singapore, Oscilloscopes Teledyne LeCroy SA Teledyne LeCroy Singapore Pte Ltd. 4, Rue Moise Marcinhes Blk 750C Chai Chee Road #02-08 Case postale 341 Technopark @ Chai Chee 1217 Meyrin 1 Singapore 469003...

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