

High Voltage
Differential
Probes
HVD3605A, HVD3206A
HVD310xA



Key Features

- 1 kV, 2 kV, 6 kV CAT safety rated models
- Widest differential voltage ranges available
- Exceptional common-mode rejection ratio (CMRR) across a broad frequency range
- 1% gain accuracy
- High offset capability at both high and low attenuation
- AC and DC coupling
- ProBus active probe interface with automatic scaling
- AutoZero with auto disconnect switch
- Wide oscilloscope compatibility

The HVD3000A series high voltage differential probes provide high CMRR over a broad frequency range to simplify the measurement challenges found in noisy, high common-mode power electronics environments. The probe's design is easy-to-use and enables safe, precise high voltage floating measurements.

Exceptional Common-Mode Rejection Ratio

The CMRR for the probes is exceptional out to very high frequencies, greatly improving measurement capability in the noisy, high common-mode environments found in power electronics. The high CMRR combined with low probe noise and high offset capability provides superior measurement capabilities compared to other HV differential probes.

High Precision Measurements

HVD3000A series probes provide 1% gain accuracy enabling precise voltage measurements. AutoZero capability ensures further measurement precision by allowing small offset drifts to be calibrated out of the measurement. This feature can be applied without removing the HVD3000A leads from the device under test.

Widest Application Coverage

The HVD3000A series cover the fullest range of applications, from 120/240 V switch-mode power supplies through 600 V class and 5 kV class electrical apparatus, Each model has the best available gain accuracy, widest differential and offset voltage range, and superior CMRR.

1500 Vdc CAT III Rating

The HVD3206A supports 1500 V_{dC} solar photovoltaic (PV) measurements per the IEC/EN 61010- 031:2015 standard. It has a 1500 V_{dC} CAT III and a 2000 V (DC+peakAC) CAT I rating.

Complete Probe Integration

The ProBus interface provides power and communication to the probe eliminating the need for a separate power supply or batteries. Attenuation is automatically selected based on oscilloscope gain range (V/div) setting.

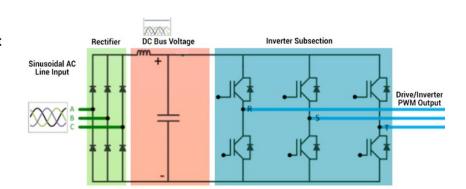


WIDE APPLICATION COVERAGE - 600 V TO 5 KV APPARATUS

600 V Class, 3-phase Electrical Apparatus

The HVD310xA probes are available in a range of bandwidths from 25 to 120 MHz with standard 2 meter cable (6 meter cable model available). All probes have industry best CMRR for best noise-immunity, are guaranteed to 1% gain accuracy, and have the industry's widest differential voltage range in a 1 kV rated high voltage differential probe.

- Only 1 kV safety rated probe that serves the full 600 V class requirement
- 1500 V differential range with industry's best overshoot measurement capability (to 2000 V_{pk})
- Industry's best offset capability (1500 V) when used with HDO Series oscilloscopes
- Bandwidth rating up to 120 MHz
- 6 meter cable model available (HVD3106A-6M)
- Models available without accessories for a lower cost (HVD310xA-NOACC)



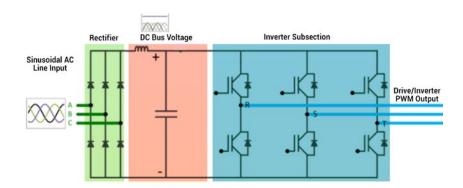
Sinusoidal AC Line Input		DC Bus Voltage	Drive / Inverter Pulse-Width Modulated (PWM) Output			Output	
V _{rms} or V _{pk-pk}			V _{pk} (Rated)		Vpk (with Overshoot)*		
V _{ac}	Line-Line	Line- Neutral	V _{dc}	Line-Line	Line- Neutral	Line-Line	Line- Neutral
400	1131	653	566	566	327	849	491
480	1358	784	679	679	392	1019	588
600	1697	980	849	849	490	1274	735
690	1952	1127	976	976	563	1464	845

*Based on 50% overshoot condition

5 kV Class, 3-phase Electrical Apparatus

The HVD3605A probe is safety-rated for 6000 V_{rms} and 8485 V(DC + peak AC) for full coverage of 5 kV class apparatus. The probe has ample 100 MHz of bandwidth, is standard with a 6 meter cable, is guaranteed to 1% gain accuracy, has excellent CMRR, and has the industry's widest differential voltage range.

- Only probe that permits AC Line, DC Bus, and Drive/Inverter output voltage probing through 4160 V apparatus ratings
- Industry's best overshoot measurement capability (to 7600 Vpk)
- Industry's best offset capability (6000 V) when used with **HDO Series oscilloscopes**
- Standard 6 meter cable



Sinusoidal AC Line Input		DC Bus Voltage	Drive / Inverter Pulse-Width Modulated (PWM) Output				
V _{rms} or V _{pk-pk}			V _{pk} (Rated)		V _{pk} (with Overshoot)*		
V _{ac}	Line-Line	Line- Neutral	V _{dc}	Line-Line	Line- Neutral	Line-Line	Line- Neutral
2400	6788	3920	3395	3395	1960	4244	2450
3300	9334	5388	4666	4666	2694	5833	3368
4160	11766	6794	5884	5884	3397	7355	4246

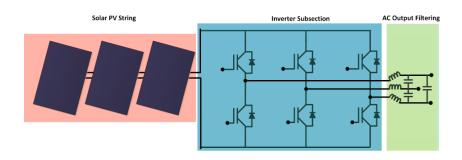
*Based on 25% overshoot condition



WORLD'S ONLY 2 KV SAFETY RATED MODEL

Solar PV Inverters

The HVD3206A probe is rated to 1500 V_{dc} (2000 V DC + peak AC). This makes the probe ideal for testing single-phase or three-phase inverters or newer 1500 V_{dC} rated string-inverters (per IEC/EN 61010-031:2015). The HVD3206A has the same excellent 1% gain accuracy, industry-leading CMRR, industry-best offset range, standard 2 meter cable (6 meter cable model available), and a guaranteed 2000 V_{pk} differential voltage range.



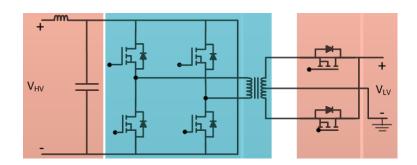
Solar String DC Bus Voltage	Sinusoidal AC Output			
	V _{pk} (Rated)		Vpk (with Overshoot)*	
V _{dc}	Line-Line	Line- Neutral	Line-Line	Line- Neutral
1000	849	490	1104	637
1500	849	490	1104	637

*Based on 30% overshoot condition

- Only 1500 V_{dc} safety rated probe per IEC/EN 61010-031:2015
- Guaranteed 2000 V_{pk} differential voltage range
- Industry's best offset capability (1500 V) when used with HDO Series oscilloscopes
- Bandwidth rating up to 120 MHz
- 6 meter cable model available (HVD3206A-6M)

DC-DC Converters

High-power DC-DC converters can operate at substantial voltages, 500 V_{dC} or higher. The HVD310xA models provide up to 1000 V_{dC} common-mode (HVD3206A models provide up to 1500 V_{dC}) and high precision (1% gain accuracy) DC voltage measurements. Automatic switchable attenuation keeps the probe in the optimum measurement range. Multiple probes can be used to understand complex device switching performance.



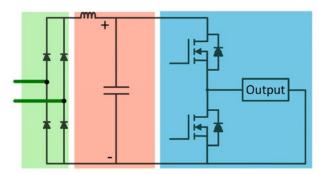
- Common mode range up to ±2000 V (DC + peak AC) with HVD3206A
- High precision 1% accuracy
- Automatic gain switching for optimum performance

SUPERIOR PERFORMANCE AT LOWER VOLTAGES

120 V / 240 V Half-Bridge Circuit Topologies

Single-phase switch-mode power supplies and other devices utilizing half-bridge topologies need test and validation at DC bus voltages up to 340 V_{dC} with up to 680 V_{D-D} on the input voltage. HVD310xA probes are cost-effective solutions for probing the wide range of high voltage signals present in these systems. "No Accessory (NOACC)" versions of these probes permit additional cost savings. Use your existing accessories or purchase just the ones you want.

- High precision 1% accuracy
- Automatic gain switching for optimum performance



Input Voltage (Vrms or Vac)	Input Voltage (Vpk-pk)	DC Bus Voltage (Vdc)	Output PWM Voltage (Vpk)
120	340	170	170
240	680	340	340

MOSFET/IGBT Devices

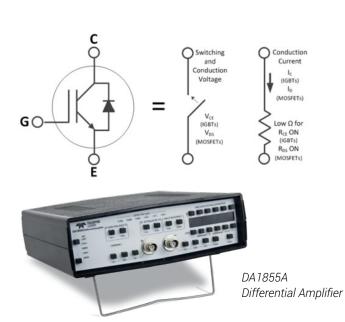
Upper-side Gate Drive Voltage Measurements

Typically from 3 to 20 volts and "floating" at up to the DC Bus voltage. HVD-A Series probes can provide very good results, but the HVFO High Voltage Fiber Optic probe is optimized for the best upper-side gate drive voltage measurements with 140 dB CMRR, reduced DUT loading, and better pulse response.

HVF0103 High Voltage Fiber Optically-Isolated Probe

Device Analysis

Conduction loss or Rds(on) measurements require a voltage probing solution that has high CMRR, fast overdrive recovery, voltage clamping (so the oscilloscope is not overdriven), compensation flatness, gain/amplification to see small signal details, and precise offset generation to see the switching device's turn-off performance. For this type of analysis, the Teledyne LeCroy DA1855A Differential Amplifier is the best solution. It provides 100 MHz bandwidth, excellent common mode rejection ratio (CMRR) of 100,000:1 (typical), and overdrive recovery to within 100 mV from a 400 V input signal in less than 100 ns.

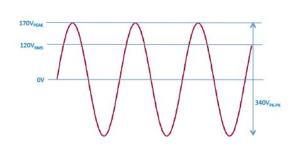


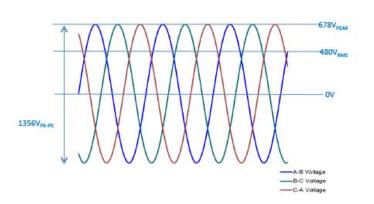
UNDERSTANDING HV DIFFERENTIAL PROBE RATINGS

AC line voltages and power electronics systems can operate at very high voltages, and all parts of the measurement circuit are not necessarily connected to ground, requiring HV safety ratings. Additionally, a variety of terms may be used to describe the same voltage. Below is a simple tutorial to help you understand the various types of voltage terms and how they relate to each other. Understanding these voltage terms is necessary to ensure the correct probe selection.

Single-phase AC Line Input

Ratings are provided in V_{rms} (also referred to as V_{ac}) referred Line-Neutral. AC Line inputs are usually grounded and these voltages can be assumed to have a OV reference voltage. V_{peak} is calculated as √2*V_{rms} and V_{pk-pk} is calculated as $2*V_{peak}$. The example to the right is for a 120 V_{rms} rating.



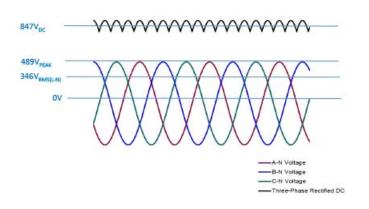


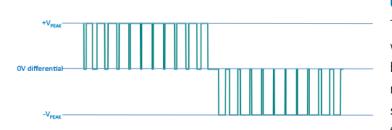
Three-phase AC Line Input

Ratings are provided in V_{rms} (also referred to as V_{ac}) referred Line-Line (L-L), which can be converted in magnitude to a Line-Neutral basis by dividing by $\sqrt{3}$. V_{peak} (L-L) is calculated √2*V_{rms} and V_{pk-pk} is calculated as 2*Vpeak. The example on the left is for a 480 Vrms three-phase rated system with signals shown as Line-Line.

Rectified AC (DC Bus/Link Voltage)

For three-phase inputs, the three Line-Neutral (L-N) AC Line inputs are rectified and summed to provide a "stiff" DC (bus/link) voltage for the input to an inverter subsection. The example shown to the right is for a 600 V_{rms} system. The Line-Neutral RMS voltages are 600V/√3, and each V_{peak}(L-N) is calculated as √2*V_{rms}. The DC bus voltage after rectification and filtering is equal to √3*Vpeak(L-N), or $847 \, V_{dc}$ in this case.





Inverter or Drive H-Bridge or Cascaded H-Bridge Outputs

The nominal peak voltage (+ or -) of the PWM signals without accounting for signal overshoot is equal to the DC bus voltage. The measured OV differential voltage value is not ground-referenced, and therefore a differential probe suitably rated to the DC bus voltage is recommended. Note that the +Vpeak and -Vpeak plus overshoot safety margin (typically ~50%) is what the HV differential probe must measure - Vpk-pk (2*Vpeak) will never occur in the circuit.

SPECIFICATIONS

Bandwidth 25 MHz 120 MHz 80 MHz		HVD3102A	HVD3106A	HVD3106A-6M
	Bandwidth	25 MHz	120 MHz	80 MHz
Common Mode Voltage	Rise Time (10-90)	14 ns		
Range	Differential Voltage Range (High Attenuation)	div with up to 1500 V offset. 1750 V maximum typical measurable	1500 V (DC + peak AC) from 7 to 9 2000 V maximum typical measurable	500 V/div with up to 1500 V offset. e differential voltage before saturation
Maximum Input Voltage	Differential Voltage Range (Low Attenuation)	27.6 V (DC + peak	AC) from 100 mV/div to 6.9 V/div with	up to 150 V offset
DESTRITH	Range			
Sensitivity	to Earth	±1		d)
Company Comp	Max Safe Input Voltage		1000 V _{rms} CAT III	
Slew Rate		6.9V/div (100X)	6.9V/div (50X) 7V/div to 500V/div (500X)	100 mV/div to 6.9V/div (50X) 7V/div to 500V/div (500X)
Attenuation 100x / 1000x 50x / 500x 500x 500x 500x 100x 100x 100x 12.5 pF (between inputs), 5 MΩ 15.0 pF (either input to ground)		100)///		070)/// / :)
Input Impedance				
Input Coupling		100x / 1000x		
Output Coupling AC or DC coupling Output Termination 1 M0 Interface ProBus Input Lead Length 40 cm input lead length Cable Length (input lead to oscilloscope connection) 6.8 m Koise and Rejection DC - 60 Hz: 85 dB DC - 60 Hz: 85 dB CMRR (Typical) DC - 60 Hz: 85 dB DC - 60 Hz: 85 dB MHz: 40 dB 1 MHz: 65 dB 1 MHz: 65 dB 5 MHz: 40 dB 5 MHz: 40 dB 5 MHz: 40 dB 6 MHz: 30 dB 20 MHz: 30 dB 80 MHz: 30 dB 8 MHz: 30 dB 100 MHz: 30 dB 80 MHz: 30 dB Noise (Probe) 100X < 15 mVrms	Input Impedance	10 MΩ 2.5 pF ((between inputs), 5 MΩ 5.0 pF (either	input to ground)
Output Termination 1 MQ Interface ProBus Input Lead Length (input lead to oscilloscope connection) 40 cm input lead length Cable Length (input lead to oscilloscope connection) 6.8 m Moise and Rejection DC - 60 Hz: 95 dB DC - 60 Hz: 95 dB DC - 60 Hz: 95 dB 1 MHz: 65 dB 2 0 MHz: 30 dB 3 0 MHz: 30 dB <			•	
Interface			• •	
Input Lead Length 40 cm input lead length 2.25 m 6.8 m				
Cable Length (input lead to oscilloscope connection) 2.25 m 6.8 m Noise and Rejection DC - 60 Hz: 85 dB DC - 60 Hz: 85 dB DC - 60 Hz: 85 dB 1 MHz: 65 dB 1 MHz: 65 dB 1 MHz: 65 dB 1 MHz: 65 dB 5 MHz: 40 dB 5 MHz: 40 dB 5 MHz: 40 dB 20 MHz: 30 dB 20 MHz: 30 dB 20 MHz: 30 dB 20 MHz: 30 dB 80 MHz: 30 dB 90 MYrms 10 Mz: 30 dB 90 Mz: 30 dB 90 Mz: 30 dB				
to oscilloscope connection) Noise and Rejection CMRR (Typical) DC - 60 Hz: 85 dB 1 MHz: 65 dB 1 MHz: 65 dB 5 MHz: 40 dB 20 MHz: 30 dB 20 MTz: 40 dB 20 MTz: 40 dB 20 MT				
DC - 60 Hz: 85 dB	to oscilloscope	2.2	25 m	6.8 m
1 MHz: 65 dB 5 MHz: 40 dB 5 MHz: 40 dB 5 MHz: 40 dB 5 MHz: 40 dB 5 MHz: 30 dB 20	Noise and Rejection			
Environmental Temperature (Operating) Temperature (Op	CMRR (Typical)	1 MHz: 65 dB 5 MHz: 40 dB	1 MHz: 65 dB 5 MHz: 40 dB 20 MHz: 30 dB	1 MHz: 65 dB 5 MHz: 40 dB 20 MHz: 30 dB
Temperature (Operating) Temperature (Non-Operating) Humidity (Operating) S% to 80% RH (Non-Condensing) up to 30°C, decreasing linearly to 45% RH at 50°C Humidity (Non-Operating) S% to 95% RH (Non-Condensing), 75% RH above 30°C, 45% RH above 40°C Altitude (Operating) When used with clip accessories, 2000 m maximum When used with clip accessories, 2000 m maximum Altitude (Non-Operating) 10,000 m Pollution Degree 2, Indoor use only Certifications CE (LVD Directive 2006/95/EC) CE (EMC Directive 2004/108/EC) UL Listed UL 61010-031 (Second Edition)	Noise (Probe)	1000X: <85 mV _{rms}	500X: <150 mV _{rms}	500X: <150 mV _{rms}
Temperature (Operating) Temperature (Non-Operating) Humidity (Operating) S% to 80% RH (Non-Condensing) up to 30°C, decreasing linearly to 45% RH at 50°C Humidity (Non-Operating) S% to 95% RH (Non-Condensing), 75% RH above 30°C, 45% RH above 40°C Altitude (Operating) When used with clip accessories, 2000 m maximum When used with clip accessories, 2000 m maximum Altitude (Non-Operating) 10,000 m Pollution Degree 2, Indoor use only Certifications CE (LVD Directive 2006/95/EC) CE (EMC Directive 2004/108/EC) UL Listed UL 61010-031 (Second Edition)	Environmental			
Temperature (Non-Operating) Humidity (Operating) 5% to 80% RH (Non-Condensing) up to 30°C, decreasing linearly to 45% RH at 50°C Humidity (Non-Operating) 5% to 95% RH (Non-Condensing), 75% RH above 30°C, 45% RH above 40°C Altitude (Operating) 3000 m maximum When used with clip accessories, 2000 m maximum Altitude (Non-Operating) 10,000 m Pollution Degree 2, Indoor use only Certifications CE (LVD Directive IEC/EN 61010-031:2015 2006/95/EC) CE (EMC Directive IEC/EN 61326-1:2013 2004/108/EC) UL Listed UL 61010-031 (Second Edition)			0°C to 50°C	
Humidity (Operating) 5% to 80% RH (Non-Condensing) up to 30°C, decreasing linearly to 45% RH at 50°C Humidity (Non-Operating) 5% to 95% RH (Non-Condensing), 75% RH above 30°C, 45% RH above 40°C Altitude (Operating) 3000 m maximum When used with clip accessories, 2000 m maximum Altitude (Non-Operating) 10,000 m Pollution Degree 2, Indoor use only Certifications CE (LVD Directive IEC/EN 61010-031:2015 2006/95/EC) CE (EMC Directive IEC/EN 61326-1:2013 2004/108/EC) UL Listed UL 61010-031 (Second Edition)	Temperature			
Humidity (Non-Operating) Altitude (Operating) Altitude (Non-Operating) Altitude (Non-Operating) Altitude (Non-Operating) Pollution Degree Certifications CE (LVD Directive 2006/95/EC) CE (EMC Directive IEC/EN 61326-1:2013 2004/108/EC) UL Listed Sk to 95% RH (Non-Condensing), 75% RH above 30°C, 45% RH above 40°C 3000 m maximum When used with clip accessories, 2000 m maximum 10,000 m 2, Indoor use only EC/EN 61010-031:2015 IEC/EN 61326-1:2013		5% to 80% RH (Non-Co	ondensing) up to 30°C, decreasing linea	urly to 45% RH at 50°C
Altitude (Operating) Altitude (Non-Operating) Pollution Degree 2, Indoor use only Certifications CE (LVD Directive IEC/EN 61010-031:2015 2006/95/EC) CE (EMC Directive IEC/EN 61326-1:2013 2004/108/EC) UL Listed UL 61010-031 (Second Edition)	Humidity (Non-Operating)			
Altitude (Non-Operating) 10,000 m Pollution Degree 2, Indoor use only Certifications IEC/EN 61010-031:2015 CE (LVD Directive 2006/95/EC) IEC/EN 61326-1:2013 CE (EMC Directive 2004/108/EC) IEC/EN 61326-1:2013 UL Listed UL 61010-031 (Second Edition)	Altitude (Operating)	When		ximum
Certifications IEC/EN 61010-031:2015 CE (LVD Directive 2006/95/EC) IEC/EN 61326-1:2013 CE (EMC Directive 2004/108/EC) IEC/EN 61326-1:2013 UL Listed UL 61010-031 (Second Edition)	Altitude (Non-Operating)	.,,,,,,,,		
CE (LVD Directive 2006/95/EC) IEC/EN 61010-031:2015 CE (EMC Directive 2004/108/EC) IEC/EN 61326-1:2013 UL Listed UL 61010-031 (Second Edition)	Pollution Degree		2, Indoor use only	
2006/95/EC) CE (EMC Directive 2004/108/EC) IEC/EN 61326-1:2013 UL Listed UL 61010-031 (Second Edition)	Certifications			
CE (EMC Directive IEC/EN 61326-1:2013 2004/108/EC) UL 61010-031 (Second Edition)			IEC/EN 61010-031:2015	
UL Listed UL 61010-031 (Second Edition)	CE (EMC Directive		IEC/EN 61326-1:2013	
CUL Listed CAN/CSA-C22.2 No. 61010-031-15			UL 61010-031 (Second Edition)	
	cUL Listed		CAN/CSA-C22.2 No. 61010-031-15	

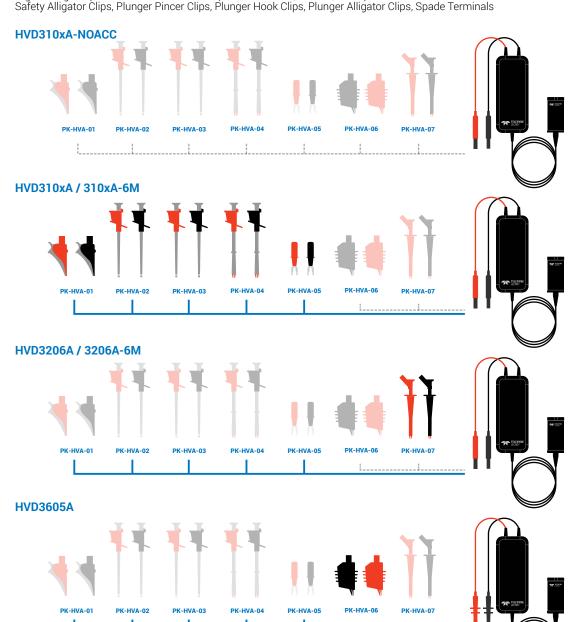
SPECIFICATIONS

	HVD3206A	HVD3206A-6M	HVD3605A	
Bandwidth	120 MHz	80 MHz	100 MHz	
Rise Time (10-90)	2.9 ns	4.4 ns	4.3 ns	
Differential Voltage Range (High Attenuation)	2000 V (DC + peak AC) from 7 to 500 V/div with up to 1500V offset.	2000 V (DC + peak AC) from 7 to 500 V/div with up to 1500V offset.	7000 V (DC + peak AC) from 28V/div to 2000 V/div with up to 6000V offset. (7600 V maximum measurable	
Differential Voltage Range (Low Attenuation)	27.6 V (DC + peak AC) from 100 mV/div to 6.9 V/div with up to 150V offset.	27.6 V (DC + peak AC) from 100 mV/div to 6.9 V/div with up to 150V offset.	differential voltage before saturation) 700 V (DC + peak AC) from 300mV/div to 27.5 V/div with up to 600V offset.	
Common Mode Voltage Range	±2000 V (DC + peak AC)	±2000 V (DC + peak AC)	±7600V (DC + peak AC), 6000 Vrms	
Maximum Input Voltage to Earth	±2000 Vpk (nominal, either input to ground)	±2000 Vpk (nominal, either input to ground)	±7600 Vpk (nominal, either input to ground)	
Max Safe Input Voltage	2000 V (DC + peak AC) CAT I * 1500 Vdc CAT III 1000 Vrms CAT III	2000 V (DC + peak AC) CAT I * 1500 Vdc CAT III 1000 Vrms CAT III	8485 V (DC + peak AC) CAT I * 6000 Vrms CAT I * 1500 Vdc CAT III 1000 Vrms CAT III	
Sensitivity	100 mV/div to 6.9V/div (50X) 7V/div to 500V/div (500X)	100 mV/div to 6.9V/div (50X) 7V/div to 500V/div (500X)	300 mV/div to 27.5 V/div (200X) 28 V/div to 2000 V/div (2000X)	
Gain Accuracy		1% (LF, guaranteed)		
Slew Rate	400 V/ns (maximum)	270 V/ns (maximum)	1000 V/ns (typical)	
Attenuation	50x / 500x	50x / 500x	200x / 2000x	
Input Impedance	10 MΩ 2.5 pF (between inputs) 5 MΩ 5.0 pF (either input to ground)	10 MΩ 2.5 pF (between inputs)	48 M Ω 2.5 pF (between inputs) 24 M Ω 5.0 pF (either input to ground)	
Input Coupling		DC only		
Output Coupling		AC or DC coupling		
Output Termination		1 ΜΩ		
Interface		ProBus		
Input Lead Length		40 cm input lead length		
Cable Length (input lead to oscilloscope connection)	2.25 m	6.8 m	6.8 m	
Noise and Rejection				
CMRR (Typical)	DC - 60 Hz: 85 dB 1 MHz: 65 dB 5 MHz: 40 dB 20 MHz: 30 dB 100 MHz: 30 dB	DC - 60 Hz: 85 dB 1 MHz: 65 dB 5 MHz: 40 dB 20 MHz: 30 dB 100 MHz: 30 dB	DC - 60 Hz: 85 dB 10 kHz: 70 dB 1 MHz: 64 dB (200x) 1 MHz: 50 dB (200x) 10 MHz: 40 dB (200x) 10 MHz: 30 dB (200x) 10 MHz: 30 dB	
Noise (Probe)	50X: <30 mVrms 500X: <150 mVrms (referred to input)	50X: <30 mVrms 500X: <150 mVrms (referred to input)	200x: <65 mVrms 2000x: <320 mVrms (typical, referred to input)	
Environmental				
Temperature (Operating)		0°C to 50°C		
Temperature (Non-Operating)		-40°C to 70°C		
Humidity (Operating)	•	condensing) up to 30°C, decreasing linea		
Humidity (Non-Operating)	5% to 95% RH (No	on-Condensing), 75% RH above 30°C, 45	% RH above 40°C	
Altitude (Operating)		3000 m maximum		
Altitud (NI o	When	used with clip accessories, 2000 m max	kimum	
Altitude (Non-Operating) Pollution Degree	10,000 m 2, Indoor use only			
Certifications		150/51/05/55/55/55		
CE (LVD Directive 2006/95/EC) CE (EMC Directive		IEC/EN 61010-031:2015		
2004/108/EC) UL Listed		UL 61010-031 (Second Edition)		
cUL Listed		CAN/CSA-C22.2 No. 61010-031-15		
COL LISIEU		UAIN/USA-UZZ.Z NO. 01010-U31-13		

^{*}CAT I per IEC/EN 61010-031/A1:2008. No Rated Measurement Category per IEC/EN 61010-031:2015.

ORDERING INFORMATION

Product Description	Product Code
1 kV, 25 MHz High Voltage Differential Probe with 2 m cable	HVD3102A
1 kV, 120 MHz High Voltage Differential Probe with 2 m cable	HVD3106A
1 kV, 80 MHz High Voltage Differential Probe with 6 m cable	HVD3106A-6M
1 kV, 25 MHz High Voltage Differential Probe with 2 m cable without tip Accessories	HVD3102A-NOACC
1 kV, 120 MHz High Voltage Differential Probe with 2 m cable without tip Accessories	HVD3106A-NOACC
2 kV, 120 MHz High Voltage Differential Probe with 2 m cable	HVD3206A
2 kV, 80 MHz High Voltage Differential Probe with 6 m cable	HVD3206A-6M
6 ky, 100 MHz High Voltage Differential Probe with 6 m cable	HVD3605A
High Voltage Replacement Accessories Kit (Includes 2 each, 1 Black, 1 Red):	PK-HV-001



HVD-A Probe Accessories

PK-HVA-01

Safety Alligator Clips (Red/Black) 1000 V CAT III

PK-HVA-02

Plunger Pincer Clips (Red/Black) 1000 V CAT II

PK-HVA-03

Plunger Hook Clips (Red/Black) 1000 V CAT II

PK-HVA-04

Plunger Alligator Clips (Red/Black) 1000 V CAT III

PK-HVA-05

Spade Terminals (Red/Black) 1000 V CAT III

PK-HVA-06

6 KV Safety Alligator Clips (Red/Black) 6000 V CAT I

PK-HVA-07

2 kV Plunger Alligator Clips (Red/Black) 2000 V CAT I

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



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