



ACCURATE & EASY TO USE

Discover a wide selections of our
sound measurement equipments according to your
sound measurement needs

PQV3500

TRI-AXIAL
ACCELEROMETERS

www.placidinstruments.com



PLACID INSTRUMENTS BV

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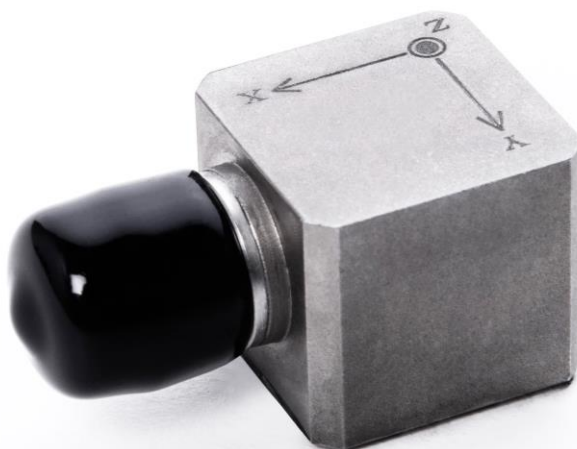
website www.placidinstruments.com

PLACID

Accelerometers

PQV3500

TRI-AXIAL
SIDE-EXIT CONNECTOR



Specification

Frequency Range

0.5 - 10000 Hz

Measurement Range

+/- 500 g

Sensitivity

10 mV/g

The PLACID PQV 3500 is a multi-purpose IEPE accelerometer.



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Specification

Basics

The PLACID PQV 3500 is a multi-purpose IEPE accelerometer.

Connectivity

The PLACID PQV 3500 is an IEPE powered accelerometer. As the output impedance of our IEPE accelerometers is between 100-300 Ohm, no special low-noise cable is required.

Uses

The PLACID PQV 3500 is used for all forthcoming vibration measurements where triaxial measurement is required

Individual calibration

All PLACID accelerometers are being calibrated in a controlled laboratory environment using traceable calibration equipment complying with ISO17025 standards.

We recommend that all PLACID accelerometers are re-calibrated every year to guarantee an optimized usage.

PLACID Traceable Calibration is performed by our qualified staff and under controlled conditions according to the procedures and standards such as ISO17025.

Quality

All PLACID accelerometers are made of high-quality materials that will ensure long stability and durability, even in harsh condition.

PLACID offers 2 years warranty against defective materials and workmanship.

All our accelerometers are made from Stainless steel.



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DATASHEET PLACID PQV 3500 ACCELEROMETER



Performance		
Voltage Sensitivity (+/- 5%)		10 mv/g
Measurement Range (g)		+/- 500
Measuring range (Hz)		0.5 – 10000 Hz
Measuring Axis (single/triaxial)		Triaxial
Maximum Acceleration		50 g
Shock (Overload Limit)		500 g pk
Frequency Response	±5%	X,Y 5000 Hz ; Z 10000 Hz
	±10%	X,Y 6000 Hz ; Z 10000 Hz
Amplitude Response	±5%	X,Y 5000 Hz ; Z 10000 Hz
	±10%	X,Y 6000 Hz ; Z 10000 Hz
Resonant Frequency		10 kHz
Non-Linearity		1%
Phase Response ±		-
Residual Noise		-
Transverse sensitivity		≤5%
Broadband Resolution		-
Base strain sensitivity		-
Output Impedance		<100Ω
Output Bias Voltage		8 – 12 V
Grounding		Cable shielding layer
Spectral Noise		≤300uv



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DATASHEET PLACID PQV 3500 ACCELEROMETER



Performance	
Sensing element	PZT5 (Piezoelectric ceramics)
Sensing geometry	20 mm × 20 mm × 18.5 mm
Environmental	
Temperature range (Celsius)	-10 to +55°C
Electrical	
Excitation Voltage (V)	18 to 30 V (Typical value : 24 V)
Constant current excitation	2 to 20 mA (Typical Value: 4 mA)
Supply Voltage (Unloaded)	18 to 30 V (Typical value : 24 V)
Constant current supply	24 V 4 mA
Physical	
Housing material	Aviation aluminum
Sealing	Crimping
Electrical connector	M12
Electrical connection Position	Side
Weight	27 g
Accessories	
Accessories Supplied	Aviation connector M12



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PLACID Accelerometers

SPECIFICATION



Models / Unit	Type	Sensitivity (mV/g)	Measurement Range (g)	Transverse Sensitivity	Frequency Range (Hz)	Temperature Range (C)	Excitation Voltage (V)	Housing Material	Cable Type
PQV1050	Single	100	+/- 50	≤5%	0.5 - 12000	-40 - +120	+12 - +24 (IEPE)	Stainless Steel	TNC
PQV1050-4		40	+/- 50	≤5%	0.5 - 12000	-40 - +120		Stainless Steel	TNC
PQV1500S		10	+/- 500	≤5%	0.5 - 10000	-40 - +120	+12 - +30 (IEPE)	Stainless Steel	M5
PQV1500T		10	+/- 500	≤5%	0.5 - 10000	-40 - +120		Stainless Steel	M5
PQV3010	Triaxial	500	+/- 10	≤5%	0.5 - 5000	-40 - +125	+12 - +24 (IEPE)	Stainless Steel	M5
PQV3050		100	+/- 50	≤5%	0.5 - 7000	-40 - +125		Stainless Steel	M5
PQV3500		10	+/- 500	≤5%	0.5 - 10000	-40 - +125		Stainless Steel	M5

PLACID is able to customize different products, will quote and provide delivery date according to customer demand