



# ACCURATE & EASY TO USE

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sound measurement needs

**PQV1050**

SINGLE AXIS  
ACCELEROMETERS

[www.placidinstruments.com](http://www.placidinstruments.com)



**PLACID INSTRUMENTS BV**

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# PLACID Accelerometers PQV-1050

SINGLE AXIS  
TOP-EXIT CONNECTOR



## Specification

Frequency Range

0.5 - 12000 Hz

Measurement Range

+/- 50 g

Sensitivity

100 mV/g

The PLACID PQV 1050 is a multi-purpose IEPE accelerometer.



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## Specification



### Basics

The PLACID PQV 1050 is a multi-purpose IEPE accelerometer.

### Connectivity

The PLACID PQV 1050 is an IEPE powered accelerometer. As the output impedance of our IEPE accelerometers is between 100-300 Ohm, no special low-noise cable are required.

### Uses

The PLACID PQV 1050 is used for all forthcoming vibration measurements where only a 1-axis signal 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 1050 ACCELEROMETER

### General Characteristic

Measurement Range (g)		0.5---12000 Hz
Measuring Axis (single/triaxial)		Single
Voltage Sensitivity ( $\pm 5\%$ )		100mv/g
Maximum Acceleration		$\pm 50$ g
Shock (OverloadLimit)		1500g pk
Frequency response	$\pm 5\%$	10000 Hz
	$\pm 10\%$	12000 Hz
Amplitude Response	$\pm 5\%$	10000 Hz
	$\pm 10\%$	12000 Hz
Resonance Frequency		30kHz
Non-Linearity		1%
Temperature range (		-40 to +120°C
Transverse Sensitivity		$\leq 5\%$
Output Impedance		$< 100\Omega$
Output Bias Voltage		8-12VDC
Grounding		Cable shieldinglayer
Spectral Noise		$\leq 300\mu v$
Sensing elements		Piezoelectric ceramics
Sensing Geometry		Hex 17mm
		Height 36mm





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## Datasheet PLACID PQV 1050 Accelerometer

### Power Requirement

Excitation Voltage(V)	Typical 24VDC
Constant CurrentExcitation	Typical 4mA
Supply Voltage(Unloaded)	18-24VDC
Constant CurrentSupply	2-20mA

### Physical Characteristics

HousingMaterial	StainlessSteel
Sealing	Crimping
Weight	31 gm
Electrical Connector	TNC
Electrical ConnectionPosition	Top



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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