

PVH01

Triaxial Vibration Meter

Introducing the PVH01. An Australian Design, Australian built triaxial vibration meter. Designed from the ground up to provide industry leading connectivity and IIOT interface, the PVH01 is ready to provide accurate, reliable vibration monitoring for all industry areas.



- ✓ Industrial IOT
- ✓ Blasting
- ✓ Environmental
- ✓ Bridge monitoring

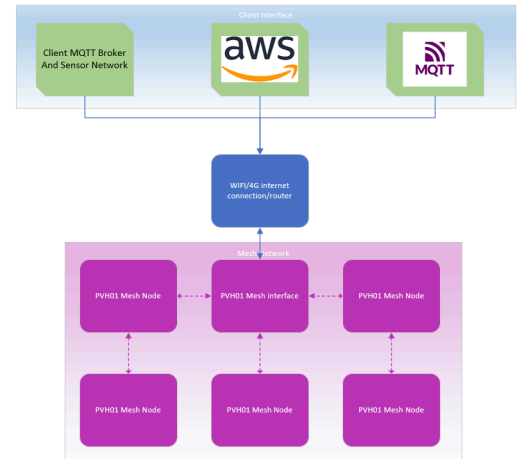
- ✓ Compliance
- ✓ Construction
- ✓ Asset monitoring
- ✓ Fatigue monitoring

PVH01

Triaxial Vibration Meter

Instralabs is proud to present the PVH01 triaxial vibration meter with inbuilt mesh networking and MQTT data streaming. Representing the latest technology in IIOT and compliance measurements, the PVH01 is designed to exceed the requirements of AS2187 and DIN 45669-1.

The PVH01 has been designed from the ground up to be a high-reliability triaxial vibration meter. Providing measurements of acceleration, velocity and displacement for all three orthogonal axes and the vector sum result. Standard output is 1 secondly data of both peak and RMS values which can be stored locally and/or sent remotely. Over the air remote control is standard to enable remote management and configuration of the device.



Ideally placed for condition monitoring, asset monitoring, blasting monitoring, bridge monitoring, any application where you need accurate, real-time vibration monitoring.

When combined with an environmental monitoring system such as Matrix Hub, or your own in-house IOT solution, the PVH01 provides you with a highly flexible, low power, accurate vibration monitoring solution.

Addition of a small solar panel gives indefinite monitoring length, and we have a range of 4G and satellite connection options for remote data applications.

Specifications

Frequency Range	0.1 - 500Hz	Interface options	Touch screen, Micro USB Serial, Wifi Mesh
AS2187 Setting	2 - 250Hz	Storage device	SD card
Linear Setting	0.315 - 500Hz	Maximum storage capacity	32GB
Peak acceleration	10g	Maximum storage duration (approx)	4 years
Reported Metrics		Power consumption (approx)	1.03W
Acceleration (Peak and RMS)*	X, Y, Z, Vector Sum	Maximum battery runtime (approx)	3 days
Velocity (Peak and RMS)	X, Y, Z, Vector Sum	Charge current	1-1.2A
Displacement (Peak and RMS)*	X, Y, Z, Vector Sum	Charge voltage	5-5.2V
Dominant Frequency	X, Y, Z	Charge Cable	Micro USB
Dominant Frequency resolution	0.1Hz	USB data streaming	Peak and RMS for X, Y, Z, and Vector Sum Stored as JSON or CSV
Measurement rate	1s - 24hr adjustable*	Wireless streaming format	MQTT with SparkplugB, JSON or CSV payload
Noise floor (X,Y,Z AS2187 response)	0.08 mm/s RMS		
Noise floor (VS AS2187 response)	0.14 mm/s RMS		
Accelerometer Mass	74 g		
Accelerometer Dimensions (L,W,H)	34.3 x 34.3 x 38.5 mm		



Price list

Part Number	Unit	Description	RRP exGST
<i>PVH01</i>	<i>Triaxial Vibration Meter</i>	<i>Including triaxial sensor and cable AS2187.2 and DIN45669-1 Inbuilt WiFi, MQTT, SD, USB streaming, Velocity (X, Y, Z in peak and RMS), 15 min resolution, "</i>	<i>\$3,495</i>
Options			
<i>PVH01 HR</i>	<i>High resolution logging option</i>	<i>Logging measurement resolution down to 1 second</i>	<i>\$2,100</i>
<i>PVH01 Metric</i>	<i>Displacement and acceleration metrics</i>	<i>Add measurements of velocity and acceleration</i>	<i>\$1,900</i>
<i>PVH01 Mesh</i>	<i>Mesh Network option</i>	<i>Mesh network option - up to 10 hops</i>	<i>\$2,500</i>
<i>PVH01 Wave</i>	<i>Wave recording</i>	<i>Option for wave recording of all 3 channels</i>	<i>\$2,500</i>
<i>PVH01 USB</i>	<i>USB Stream Output</i>	<i>Stream measurement outputs through usb port</i>	<i>\$1,500</i>
<i>If 2 or more options are purchased in the same transaction, a 10% discount can be applied.</i>			
Accessories			
<i>PVH01 MP</i>	<i>Standard Mounting plate</i>	<i>Mounting plate with threaded holes for vibration sensor mounting, and 4 holes for ground mounting</i>	<i>\$250</i>
<i>PVH01 C</i>	<i>Standard PVH01 cable</i>	<i>2m cable for connection between PVH and vibration sensor (Longer lengths available as special order)</i>	<i>\$195</i>

*Jan 2024 - prices subject to change without notice
PVH01 comes with a manufacturer's calibration certificate
All hardware supported by 12 month return to manufacturer warranty*