

# ECOMVIBE

## VIBRATION SENSOR



⋮ Ethernet, 3G  
or Wi-Fi

Secure web server  
i-comesure.com



EcomSaaS web Services



Construction sites produce vibrations that are important to measure to prevent from potential structural damage (cracks, movements, collapses) or secondary impairment to sensitive equipment (computer systems and laboratory instruments).

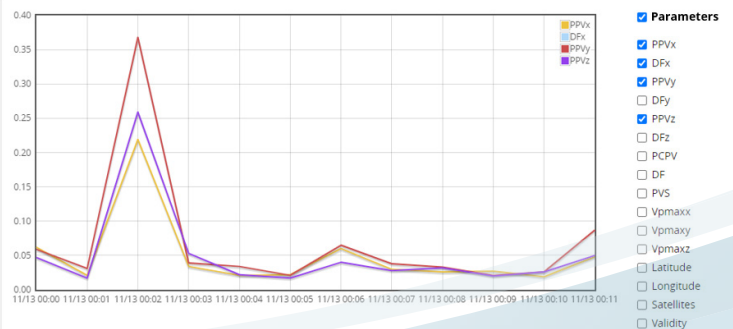
Ecomesure offers a resistant, reliable and robust vibration sensor, which can easily be integrated into the environmental data management platform [www.i-comesure.com](http://www.i-comesure.com).

EcomVibe connects automatically to the web platform for real-time data monitoring and sensors remote control.

### Dashboard

PPVx <b>0.090</b> mm/s	PVS <b>0.121</b> mm/s	PPVz <b>0.102</b> mm/s	PCPV <b>0.102</b> mm/s	PPVy <b>0.087</b> mm/s
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### Measurements



## + BENEFITS

- + Robust and hard-wearing (IP65, waterproof)
- + High metrological accuracy
- + Easy to install and use
- + Centralized data on [www.i-comesure.com](http://www.i-comesure.com)
- + E-mail and SMS alert system

## + APPLICATIONS

- + Demolition sites
- + Road and rail transport
- + Construction sites
- + Pile driving
- + Tunneling

## ECOMVIBE

ECOMVIBE  
SPECIFICATIONS

Sensor type	IEPE (Integrated Electronics Piezo-Electric), 01DB	
Reference metrological standards	Class 1 DIN 45669-1 DIN 4150-3, BS 5228-4, BS 7385-2, BS 6472-1, DIN 4150-2, ISO 2631-2 2003 and ISO 2631-2 1989.	
Measurement range	Acceleration from 0.5 mm/ s <sup>2</sup> to 100 m/ s <sup>2</sup> Speed from 0.05mm/sec to 140mm/sec	
Sampling frequency	3200 Hz for each channel, up to 7 channel simultaneously	
Data storage	Locally on a SD card, SDHC or SDXC, 2 Go or superior (2 Go as standard) Data storage every 10s. External on a secure web server	
Access to web services	<a href="https://www.i-comesure.com">https://www.i-comesure.com</a> Secured by password and SSL certificate	
Web services	Mapping   Data real time display   Multi-display mode (index and scientific)   Device status   Device remote control   Data storage   Data downloading (direct download in xls, csv, sending by FTP protocol)   Alerts/ alarms by SMS and/or E-mail   Data operating & analytics reports - access   Virtual Integrated Devices (VID)   Data ciphering   API link   Database export   Data logger	
Other complementary sensors	Accelerometer or velocimeter.	
Unit Weight and dimensions	5 300g. H x L x P : 82.5*281*240 mm	
Communication	Ethernet (100 Mb/s), Wi-Fi (including access point), 3G (optional), USB 2.0	
Power Supply	Lithium-ion battery External: 12 V CC ± 3 V on charger input	
Autonomy	> 28 h without Wi-Fi and 3G at 20 °C and > 12 h with Wi-Fi and 3G at 20 °C	
User Interface	Simplified keyboard with 2 buttons, status indicators 7 LED	
Operating temperature	Not charging	-10 °C to +55 °C (14 to 131°F)
	Charging	-10 to 36 °C (14 to 97°F)
Moisture conditions	0-95% (without condensation)	
Altitude	To 2000m	
Protection	IP65	



Typical application: air quality and vibration monitoring

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