

OMNIDOTS SWARM V2.1 Vibration Monitoring System

Product Specifications

Generated at the 24th of February 2022, at 12:57:39 pm

DATA ACQUISITION

Direction	X, Y, Z
Range frequency	0.5 - 250 Hz
Range velocity	± 50 mm/s (± 2 in/s)
Range acceleration	± 4 g
Measurements	PPV, PPA, PVS, VDV, Velocity traces
Noise (RMS)	50 μ m/s at 250 Hz BW (2 mil/s)
Resolution	1 μ m/s (0.04 mil/s)
Dominant frequency determination	FFT
Applications	Construction (metric)

GPS LOCATION

Sensor type	GPS receiver
Accuracy	10 meter CEP (33 ft CEP)

SENSOR TILT

Maximum velocity level	50 mm/s (2 in/s)
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LOGGING INTERVAL TIME

Range	2 - 6000 seconds
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ALARM TRIGGER LEVEL

Range (PPV)	0.2 - 50 mm/s (0.008 - 2 in/s)
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APPLICABLE STANDARDS

SBR-A / DIN4150-3 / BS7385 / Circulaire du '86 / ISEE (USBM RI 8507 & OSMRE) / SN 640 312a / IN 1226



HONEYCOMB CLOUD SERVICE (personal dashboard)

Displays	PPV, PPA, PVS, VDV, Velocity traces, FFT
Exports	PPV, PPA, PVS, VDV, Velocity traces
Velocity	Peak particle velocity
Frequency	Dominant frequency
Traces	1000 samples per second
Number of traces	Maximum of 5 highest traces per hour
Data storage	Secure data centre

ALARM SETTINGS

Alarm level curve	SBR curve, DIN curve, Circulaire '86, ISEE (USBM RI8507 & OSMRE), SN 640 312a, IN1226, Flat line
Type of message	E-mail, SMS, personal dashboard

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COMMUNICATION

Wireless

WiFi, 4G/LTE

MODEM

Network

4G/LTE

INTERNAL MEMORY

Storage

~ 1 work week storage of log records

AMBIENT CONDITION

Ingress protection rating

IP65

Operating temperature range

-10°C to 70°C (14°F to 158°F)

Storage temperature range

-30°C to 90°C (-22°F to 194°F)

POWER SUPPLY

Power source

External

Minimal power supply

5V USB power (min. 4.5V, max. 5.5V), min. 1A
(5W)

Power consumption

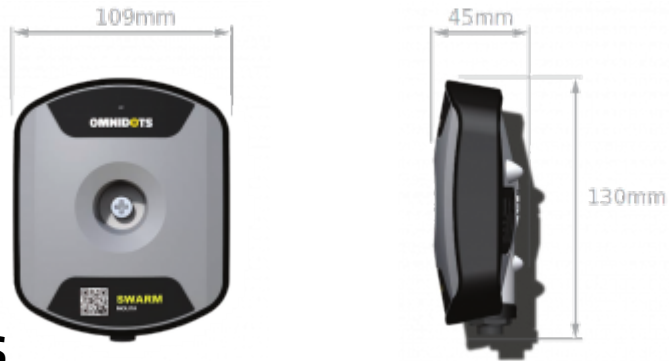
25mW sleeping, 1W idle, 3W active, 5W
max

CALIBRATION

Recommended biennial (every two years)*

Certified calibration by a Omnidots certified facility

* When used according to product manual and within ambient specifications.



DIMENSIONS

Dimensions 109 x 130 x 45 mm (4.29 x 5.12 x 1.77 inch)

Weight 260 gr (9.17 oz)



SENSOR POSITIONING

Mounting 1 screw and 1 plug included

Auto levelling; Auto axes alignment Automatic adjustment by gravity

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