

OMNIDOTS SWARM V2.2c Vibration Monitoring System

Product Specifications

Generated at the 27th of October 2020, at 02:55:13 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, $V_{eff(max)}$, V_{per} , KBFmax, KBFTm, Velocity traces
Noise (RMS)	25 μ m/s at 250 Hz BW (1 mil/s)
Resolution	0.5 μ m/s (0.02 mil/s)
Dominant frequency determination	FFT
Applications	Construction (metric / imperial)

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)	0.1 - 50 mm/s (0.004 - 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 / SBR-B / DIN 4150-2 / DIN 45669-1



HONEYCOMB CLOUD SERVICE (personal dashboard)

Displays	PPV, PPA, PVS, VDV, $V_{eff(max)}$, V_{per} , KBFmax, KBFTm, Velocity traces, FFT
Exports	PPV, PPA, PVS, VDV, $V_{eff(max)}$, V_{per} , KBFmax, KBFTm, Velocity traces
Velocity	Peak particle velocity
Frequency	Dominant frequency
Traces	1000 samples per second
Number of traces	Unlimited
Data storage	Secure data centre

ALARM SETTINGS

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

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COMMUNICATION

Wireless	WiFi, 4G/LTE
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MODEM

Network	4G/LTE
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INTERNAL MEMORY

Storage	~ 1 work week storage of log records
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AMBIENT CONDITION

Ingress protection rating	IP65
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Operating temperature range	-10°C to 70°C (14°F to 158°F)
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Storage temperature range	-30°C to 90°C (-22°F to 194°F)
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POWER SUPPLY

Power source	External
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Minimal power supply	5V 1A
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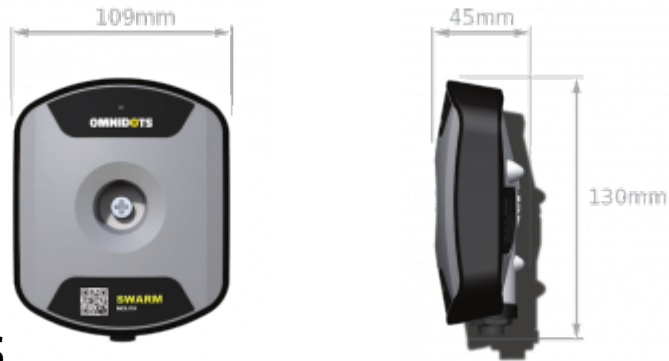
Power consumption	25mW sleeping, 1W idle, 3W active, 5W max
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CALIBRATION

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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