

# OMNIDOTS SWARM V2.2cw

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	$\pm 300.0$ mm/s ( $\pm 12$ in/s)
Range acceleration	$\pm 40$ g
Measurements	PPV, PPA, PVS, VDV, $V_{\text{eff}(\text{max})}$ , $V_{\text{per}}$ , KBFmax, KBFTm, Velocity traces
Noise (RMS)	25 $\mu\text{m/s}$ at 250 Hz BW (1 mil/s)
Resolution	0.5 $\mu\text{m/s}$ (0.02 mil/s)
Dominant frequency determination	FFT
Applications	Construction (metric / imperial), Blasting, Mining

### GPS LOCATION

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

### SENSOR TILT

Maximum velocity level	300 mm/s (12 in/s)
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### LOGGING INTERVAL TIME

Range	2 - 6000 seconds
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## ALARM TRIGGER LEVEL

Range (PPV)

0.1 - 300mm/s (0.004 - 12 in/s)

## 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

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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

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Wireless

WiFi, 4G/LTE

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## MODEM

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Network

4G/LTE

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## INTERNAL MEMORY

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Storage

~ 1 work week storage of log records

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## AMBIENT CONDITION

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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

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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

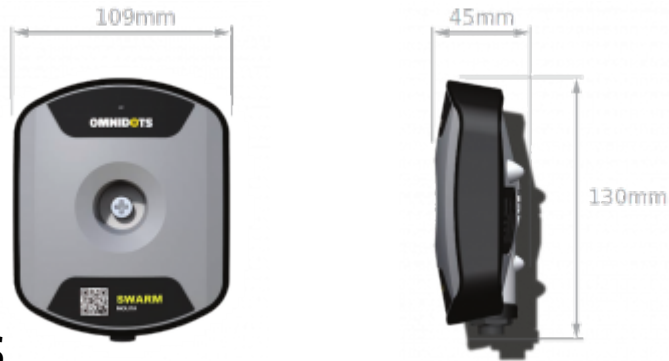
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Recommended biennial (every two years)\*

Certified calibration by a Omnidots certified facility

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

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## **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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