

# OMNIDOTS SWARM V2.2cw

Part of Omnidots' environmental monitoring solution

## Product Specifications

Generated at the 17th of October 2022, at 01:29:40 pm

### DATA ACQUISITION

Direction	X, Y, Z
Range frequency	0.5 - 250 Hz
Range velocity	±300.0 mm/s (±12 in/s)
Range acceleration	±40 g
Measurements	PPV, PPA, PVS, VDV, Veff(max), Vper, KBFmax, KBFTm, Velocity traces
Noise (RMS)	25 um/s at 250 Hz BW (1 mil/s)
Resolution	0.5 um/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)
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## APPLICABLE STANDARDS

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