OMNIDOTS SWARM V2.2cw

Part of Omnidots' environmental monitoring solution

Product Specifications

Generated at the 12th of January 2026

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)

LOGGING INTERVAL TIME

Range	2 - 6000 seconds

ALARM TRIGGER LEVEL

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

APPLICABLE STANDARDS

DIN4150-3 80Hz / DIN 4150-2 / ISEE 250Hz (USBM RI 8507 & OSMRE) / SBR-A 2010 / SBR-A 2017 / SBR-B 2002 / BS7385 250Hz / BS6841 / Circulaire du 23/07/1986 / SN 640 312a / IN 1226 / ÖNORM S 9020 / UNE 22-381-93 / SS 02 52 11 / SS 4604861

HONEYCOMB CLOUD SERVICE (personal dashboard)

Displays	PPV, PPA, PVS, VDV, Veff(max), Vper, KBFmax, KBFTm, Velocity traces, FFT
Exports	PPV, PPA, PVS, VDV, Veff(max), Vper, 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

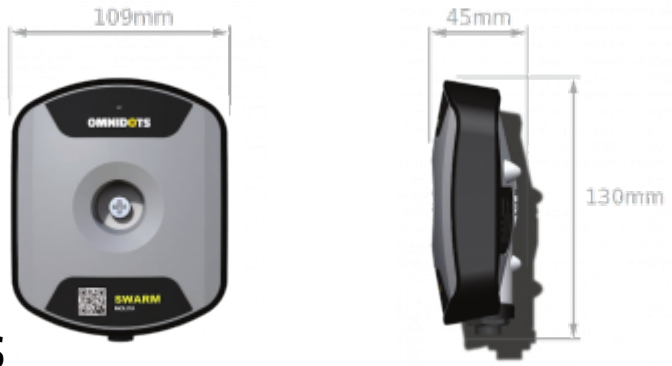
Ingress protection rating	IP65
Operating temperature range	-10°C to 70°C (14°F to 158°F)
Storage temperature range	-30°C to 90°C (-22F° to 194°F)

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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