

# OMNIDOTS SWARM Sound Datasheet

Part of Omnidots' environmental monitoring solution

## Product Specifications

Generated at the 11th of April 2024, at 11:07:33pm, updated at the 10th of March 2026



### DATA ACQUISITION

Frequency range	10Hz - 20 kHz
Frequency weighting	A, B, C, Z
Time Weighting	Fast, Slow
Measurements	Leq, Lmax, Lmin, Daily values, Lden, Lpeak
Statistical measurements	Ln [L10, L50, L90]
Bitdepth	32 bit
Sample rate	48 kHz
Audio recordings	8 second fragments
Microphone type	MEMS
Dynamic range	26 dB - 133 dB

### GPS LOCATION

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

### LOGGING INTERVAL TIME

Range	1 - 3600 seconds
-------	------------------

## APPLICABLE STANDARDS

---

IEC 61672, ANSI S1.4-2014 Class 1 tolerances met

---



## HONEYCOMB CLOUD SERVICE (personal dashboard)

---

Displays	Leq, Lmax, Lmin, Daily values, Lden, Lpeak, Ln (L10, L50, L90)
Exports	Leq, Lmax, Lmin, Lpeak, Ln (L10, L50, L90)
Audio fragments	8 seconds, 4 seconds before trigger
Number of audio fragments	Maximum of 5 highest triggers per hour
Data storage	Secure data centre

## ALARM SETTINGS

---

Triggers	Lmax, Leq, Lden
Type of message	E-mail, SMS, personal dashboard

## COMMUNICATION

---

Wireless	WiFi, 4G/LTE, Bluetooth
Wired	Ethernet

## INTERNAL MEMORY

---

Storage	~ 1 work week storage of log records
---------	--------------------------------------

## AMBIENT CONDITION

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



## POWER SUPPLY

Power source	Included power supply, PoE(+,++), Omnidots Battery.
Power input range	5V - 57V DC
Power consumption	25mW sleeping, 1W idle, 3W active, 6W max

## CALIBRATION

Field calibration	Any standard field calibrator for 1/2" microphones compatible. (94 dB field calibrator)
Periodic testing	Recommended biennial (every two years) Calibration and service available at an Omnidots calibration facility

## INTERFACE

Status display	5 individually controlled LEDs
----------------	--------------------------------

## DIMENSIONS

Dimensions	214 x 94 x 55 mm (8.43 x 3.70 x 2.17 inch)
Weight	400 gr (14.1 oz)

## MOUNTING OPTIONS

---

Pole mount	30mm - 140mm with band clamp included
Tripod or wall bracket	Universal 3/8" UNC connector

Generated at the 11th of April 2024, at 11:07:33pm, updated at the 10th of March 2026

**OMNIDOTS** | Potklei 5 | 9351 VS | Leek | The Netherlands | +31 85-0700 336 | info@omnidots.com |  
VAT: NL854237677B01 | CoC: 61169935 | Bank: NL35RABO0306761149