

OMNIDOTS DUST V2

Part of Omnidots' environmental monitoring solution

Product Specifications

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

DATA ACQUISITION

Measurement technique	Nephelometer - forward light scattering
TSP (Total Suspended Particles)	
Optional cyclone filters	PM10, PM2.5, PM1 (order separately)
Measurement range	0 to 100,000 $\mu\text{g}/\text{m}^3$
Measurement sensitivity	1 $\mu\text{g}/\text{m}^3$
Zero calibration	Automatic zero calibration every hour or as programmed from 1 to 999 minutes
Flow rate	2.0 liters/minute \pm 0.1 lpm

GPS LOCATION

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

LOGGING INTERVAL TIME

Range	1 - 6000 seconds
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ALARM TRIGGER LEVEL

Range (concentration)	> 50 $\mu\text{g}/\text{m}^3$
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APPLICABLE STANDARDS

MCERTS	
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HONEYCOMB CLOUD SERVICE (personal dashboard)

Displays	1, 15, 30, 60 mins and 24 hour aggregates for PM 1, PM 2.5 and PM 10
Exports	1, 15, 30, 60 mins and 24 hour aggregates for PM 1, PM 2.5 and PM 10
Data storage	Secure data centre



ALARM SETTINGS

Type of message	E-mail, SMS, personal dashboard
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COMMUNICATION

Wireless	WiFi
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MODEM

Network	- LTE / GSM
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INTERNAL MEMORY

Storage	~ 2 work weeks storage of log records
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AMBIENT CONDITION

Ingress protection rating	IP65
Operating temperature range	-30°C to 50°C (-22°F to 122°F)
Barometric pressure range	600 to 1040 mbar
Ambient humidity range	0 to 90% RH, non-condensing

POWER SUPPLY

Power source	External (Please specify desired mains connector)
Minimal power supply	15 - 40V DC @1.5A max.
Power consumption	~1.5A @12V

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	483 x 178 x 108 mm (4.29 x 5.12 x 1.77 inch)
Weight	3.0 kg (105 oz)

ACCESSORIES

Weather Sensor, RS232 Communication Cable, RS485 Communication Cable, Cyclone PM 1 (order separately), Cyclone PM 2.5 (order separately), Cyclone PM 10

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