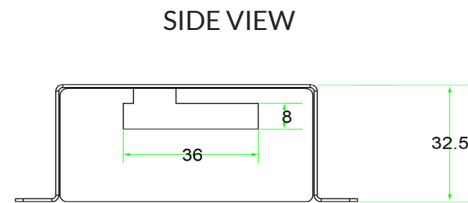
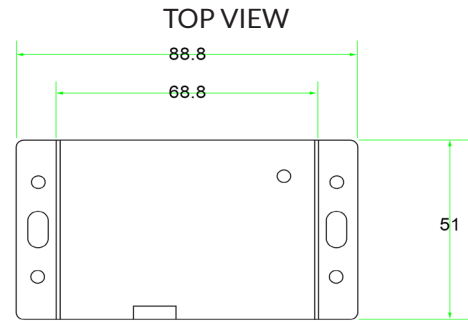




Particle Sensor (ENV-PARTICLE)

Sensor Page

Store Page



General description

Designed to provide added value to applications in several industries, including air quality monitoring, air purifiers and HVAC.

Key features

- Plugs into the base unit (BASE-WIRED).
- Powered by the base unit (BASE-WIRED).
- OU Rack or wall mountable sensor.
- Alerts via SNMP Traps, email, SMS or voice calls.
- Measures total mass concentration values for PM1, PM2.5, PM4 and PM10 in $\mu\text{g}/\text{m}^3$.
- MCERTS-Certified

Technical specifications

Power source:	SensorGateway (BASE-WIRED)
Power usage:	156 mW
Mass concentration range:	0 – 1000 $\mu\text{g}/\text{m}^3$
Particle detection size range:	Mass concentration: PM1.0, PM2.5, PM4 and PM10 Number concentration: PM0.5, PM1.0, PM2.5, PM4 and PM10
Mass concentration resolution:	1 $\mu\text{g}/\text{m}^3$
Mass concentration precision:	PM1 and PM2.5: $\pm 10 \mu\text{g}/\text{m}^3$ @ 0 to 100 $\mu\text{g}/\text{m}^3$ $\pm 10\%$ @ 100 to 1000 $\mu\text{g}/\text{m}^3$ PM4 and PM10: $\pm 25 \mu\text{g}/\text{m}^3$ @ 0 to 100 $\mu\text{g}/\text{m}^3$ $\pm 25\%$ @ 100 to 1000 $\mu\text{g}/\text{m}^3$
Maximum long-term mass concentration precision limit drift:	$\pm 1.25 \mu\text{g}/\text{m}^3$ @ 0 to 100 $\mu\text{g}/\text{m}^3$ $\pm 1.25\%$ @ 100 to 1000 $\mu\text{g}/\text{m}^3$
Lower limit detection:	0.3 μm
Lifetime:	10 years operating continuously 24hrs/day
Acoustic emission level:	25dB(A) @ 0.2m
Long term acoustic emission level drift:	+0.5dB(A)/year @ 0.2m
Sampling interval:	1 \pm 0.04s

Environmental and physical specification

Operating temperature range:	-10°C to 60°C (14°F to 140°F) in PoE mode
Storage temperature range:	-40°C to 70°C (-40°F to 158°F)
Humidity (operating and storage):	< 90% rH (non-condensating).
Dimensions:	88.8mm (3.5") x 51mm (2") x 32.5mm (1.28")
Recommended temperature and humidity range:	10°C to 40°C and 20% to 80% rH
Weight:	0.14kg (0.31 lbs.)