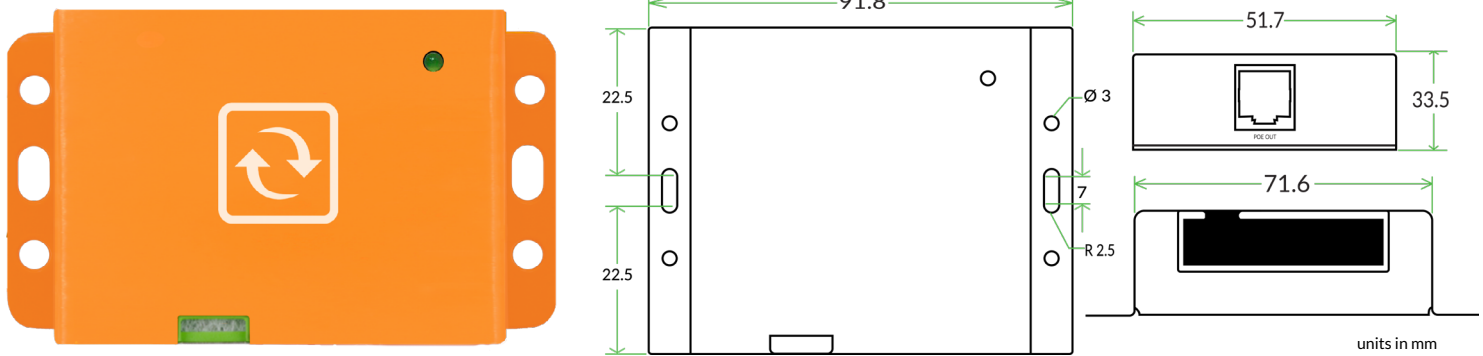




## Particle Sensor (ENV-PARTICLE)



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

### Certifications:

PMCERTS-Certified

### Sensor Metrics:

Mass concentration range	0 – 1000 µg/m <sup>3</sup>
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 µg/m <sup>3</sup>
Mass concentration precision	PM1 and PM2.5: ±10 µg/m <sup>3</sup> @ 0 to 100 µg/m <sup>3</sup> ±10 % @ 100 to 1000 µg/m <sup>3</sup> PM4 and PM10: ±25 µg/m <sup>3</sup> @ 0 to 100 µg/m <sup>3</sup> ±25 % @ 100 to 1000 µg/m <sup>3</sup>
Maximum long-term mass concentration precision limit drift	±1.25 µg/m <sup>3</sup> @ 0 to 100 µg/m <sup>3</sup> ±1.25 % @ 100 to 1000 µg/m <sup>3</sup>
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 ± 0.04s

### Technical Specifications:

Powered by and communicates with	Base Unit (BASE-XX) (required)
Connectivity	RJ45 cable transmitting data & power from Base Unit to Sensor
Cable specification	RJ45 CAT 6/7 recommended Up to 100m (330ft) subject to cable quality & interference
Sensor power usage	156mW

### Environmental Specifications:

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)
Recommended temperature and humidity range	10°C to 40°C and 20% to 80% rH

### Physical Specifications:

Sensor enclosure	Steel enclosure, industrial grade
Mounting option	0U rack, DIN rail, magnetic, or wall mountable sensor
Dimensions	91.6 mm (3.6") x 71.7mm (2.8") x 33.6mm (1.32")
Weight	170g (0.38 lbs.)