CCTSCK4936791 ServersCheck Indoor Dust Particle Sensor Probe User Guide

Contents

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Overview

The Particle Sensor (ENV-PARTICLE) is used in detecting particle concentration in HVAC and air quality applications. This document aims to guide the user in installing our ENV-PARTICLE in your facilities and also to provide recommendations for sensor placement. You may visit our Particle sensor page at: **https://infrasensing.com/sensors/sensor_particle.asp**

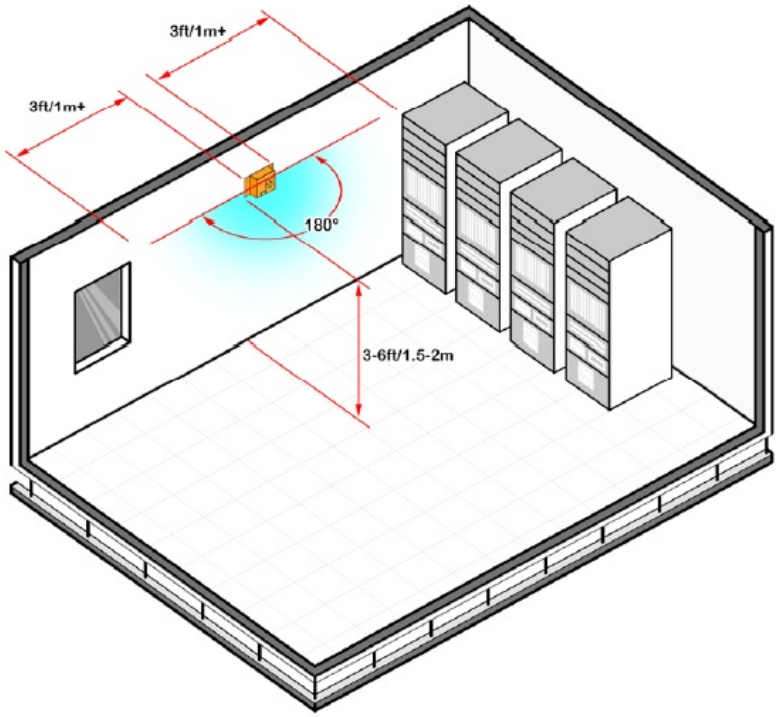
What you need

- Power source (PoE or 12V DC)
- BASE-WIRED
- LAN cable
- ENV-PARTICLE

Recommended placements

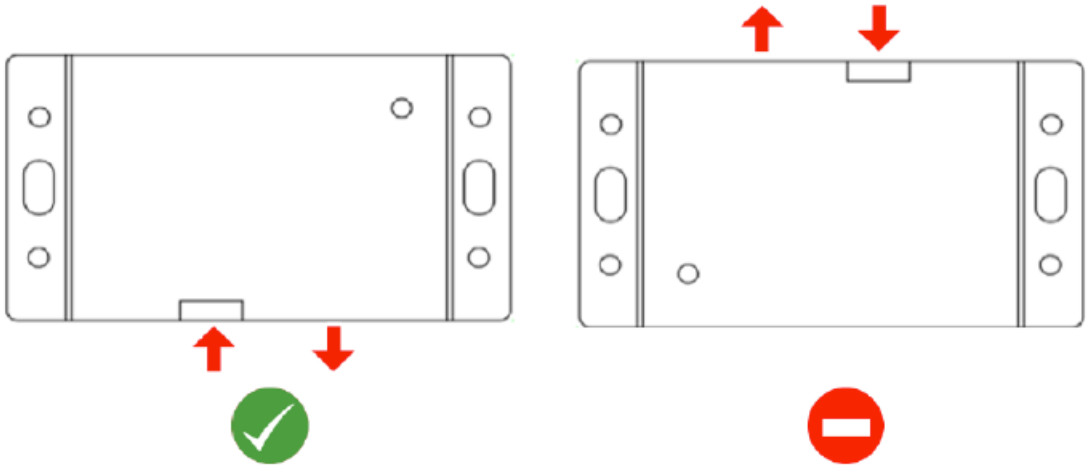
For air quality monitoring, the sensor should be placed:

- Within the breathing level in the room, this is between 3-6ft or 1.5-2m from the floor.
- At least 3ft/1m away from any obstacles, openings, and ventilations.
- At 180 ° free of any obstruction.
- Not being close to any pollutants that may impact its result.

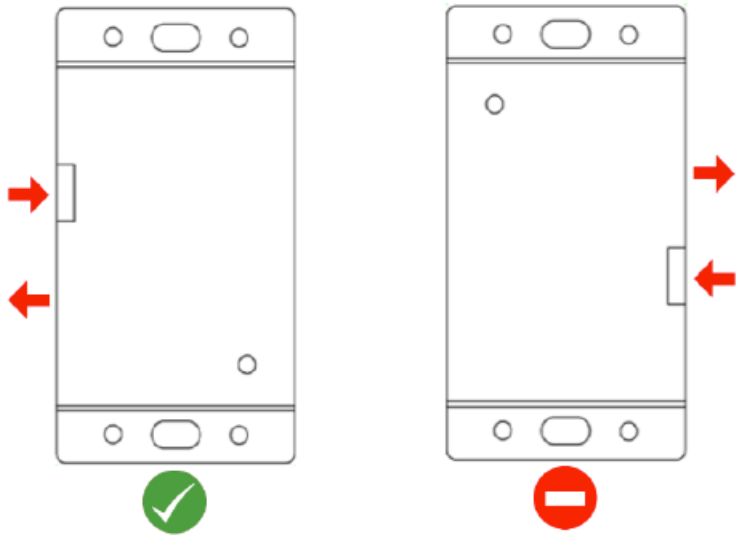


For particle air inlet and outlet:

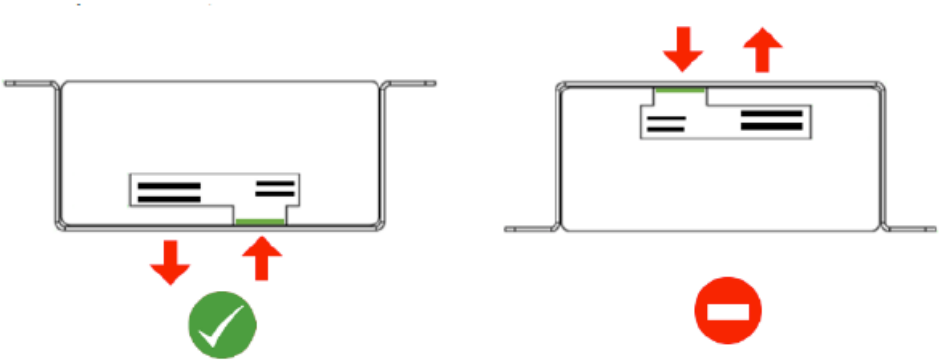
- The ENV-PARTICLE is housed in a metal frame that has 2 air inlets and 1 air outlet that should remain unobstructed at all times.
- In vertical orientation, the inlets/outlets should be facing down to avoid dust accumulation.



- In lateral placement, the inlets should be above the outlet to avoid returning of particles to the inlets.

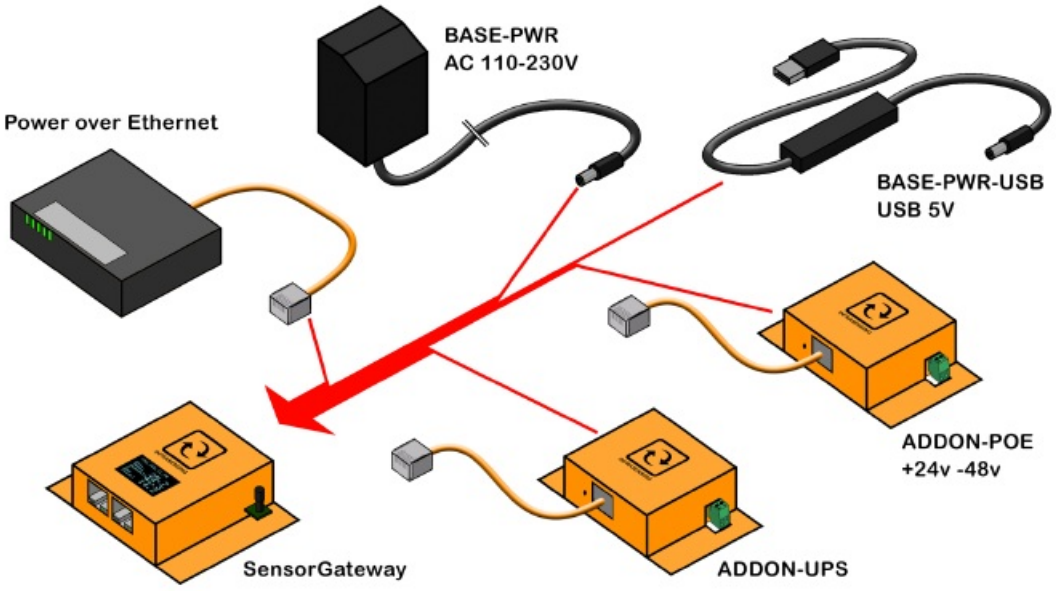


- In horizontal placement, the green marked inlet should be facing the ground.



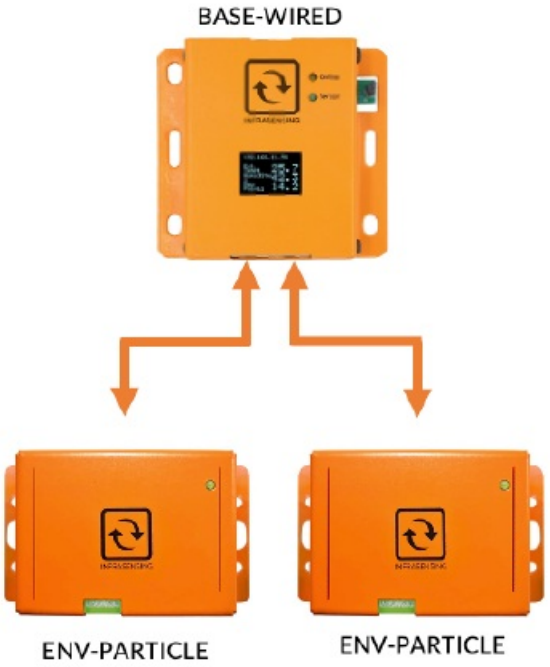
Installation

Supply power to the BASE-WIRED via PoE(power over ethernet or 12V DC adapter/BASE-PWR) Other power options include BASE-PWR-USB, ADDON-POE, ADDON-UPS.

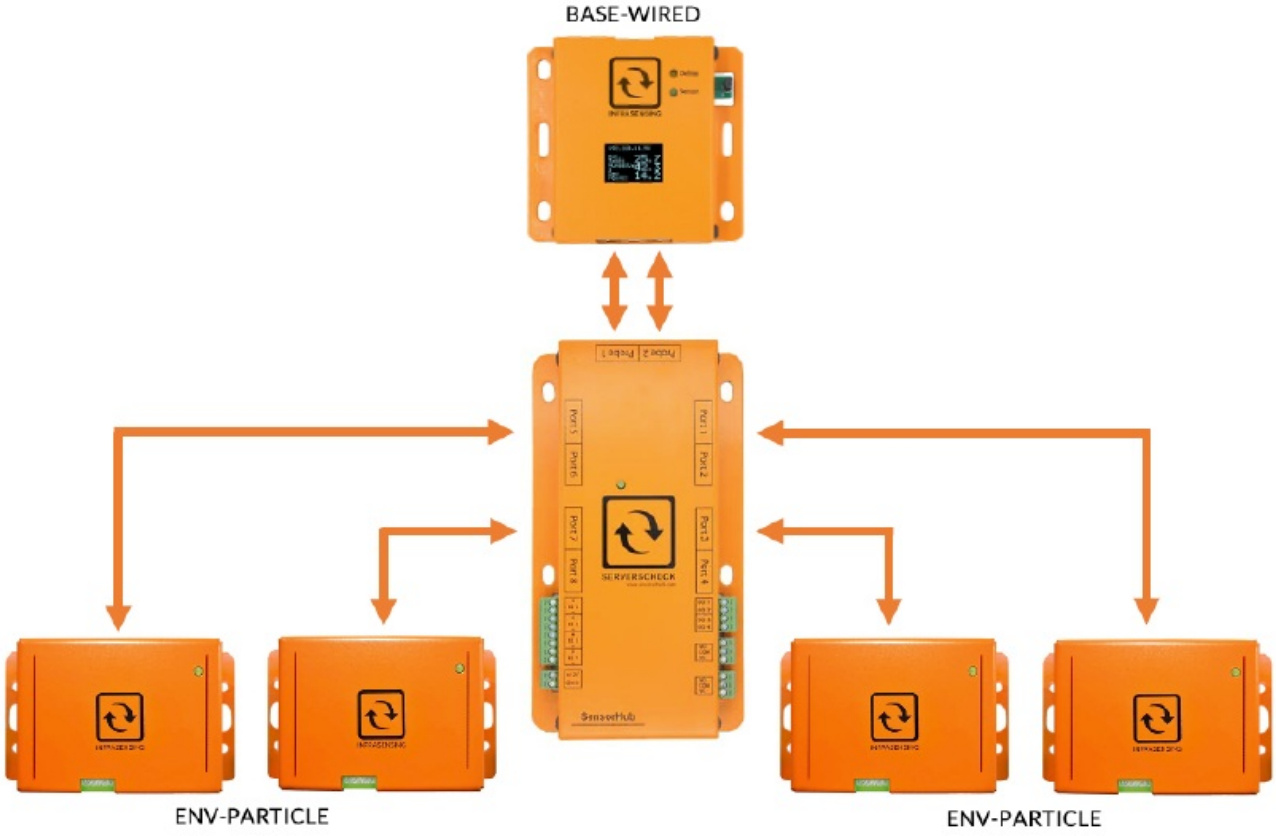


Connecting the BASE-WIRED to the ENV-PARTICLE

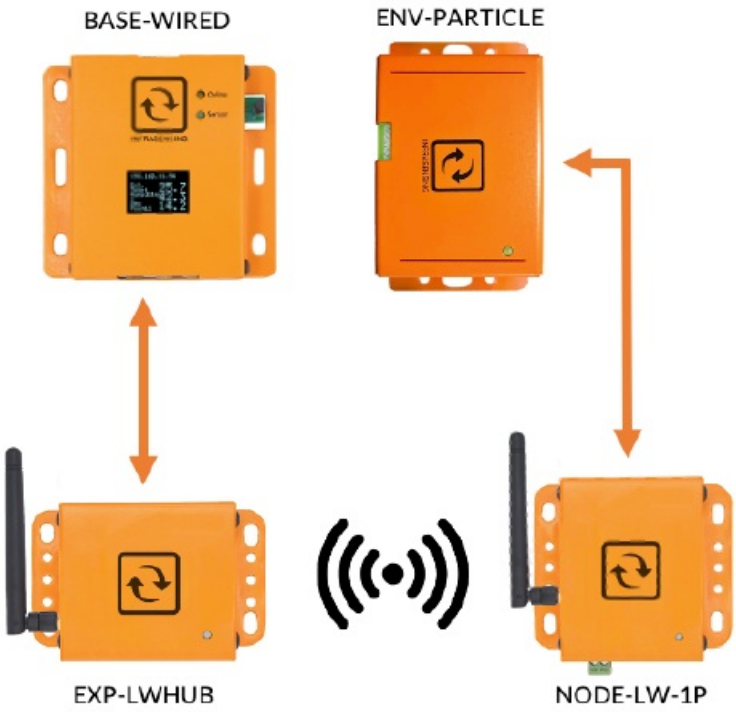
- Via direct LAN connection



- Via SensorHub(EXP-8HUB)



- Via LoRa (EXP-LWHUB and NODE-LW-1P)



You can wirelessly connect your sensor probe to the BASE-WIRED, each LoRa Hub can support up to 20 LoRa Node. The LoRa Hub's power is supplied by the BASE-WIRED while the LoRa Node's power can be supplied by 12/24V DC or a USB-C type.

Documents / Resources

ENV-PARTICLE INFRASENSING Sensor Application Guide	ServersCheck CCTSCK4936791 ServersCheck Indoor Dust Particle Sensor Probe [pdf] User Guide CCTSCK4936791, ServersCheck Indoor Dust Particle Sensor Probe, CCTSCK4936791 ServersCheck Indoor Dust Particle Sensor Probe, Indoor Dust Particle Sensor Probe, Dust Particle Sensor Probe, Particle Sensor Probe, Sensor Probe, Probe

References

- Digital PM1,2.5,4 & 10 particle sensor