

Measure environmental conditions including: humidity, temperature, VOC concentrations, eCO<sup>2</sup> and dew point.

This ceiling-mounted sensor allows the measurement of specific environment factors.

The ES-VTH can detect current temperature, relative humidity, dew point, carbon dioxide concentration and other Volatile Organic Compounds (VOC) such as solvents, cleansers and disinfectants.

Common applications include: indoor air quality monitoring, ventilation compliance and workplace environment management.



## Specifications

**Power supply** 10–30V DC

**Input types** Humidity, temperature, dew point, VOC concentration, eCO<sup>2</sup>

**Temperature range** -40° F to 140° F  
 -40° C to 60° C

**Accuracy** ± 1° F, 0.5° C

**Relative Humidity range** 0-100%

**Accuracy** ± 3.5%

**Dew point range** -40° F to 140° F  
 -40° C to 60° C

**Accuracy** ± 3.5%

**Indoor Air Quality (IAQ)**

**eTVOC (estimated Total Volatile Organic Compound) range** 0 – 32,000 parts per billion (ppb)

**Accuracy** ± 15% typical

**eCO<sup>2</sup> (estimated Carbon Dioxide)**

**Range** 400 – 32,000 parts per million (ppm)

**Accuracy** ± 15% typical

**Output** RS485 MODBUS RTU protocol

Order code: ES-VTH

**-VTH** VOC, temperature, humidity, dew point

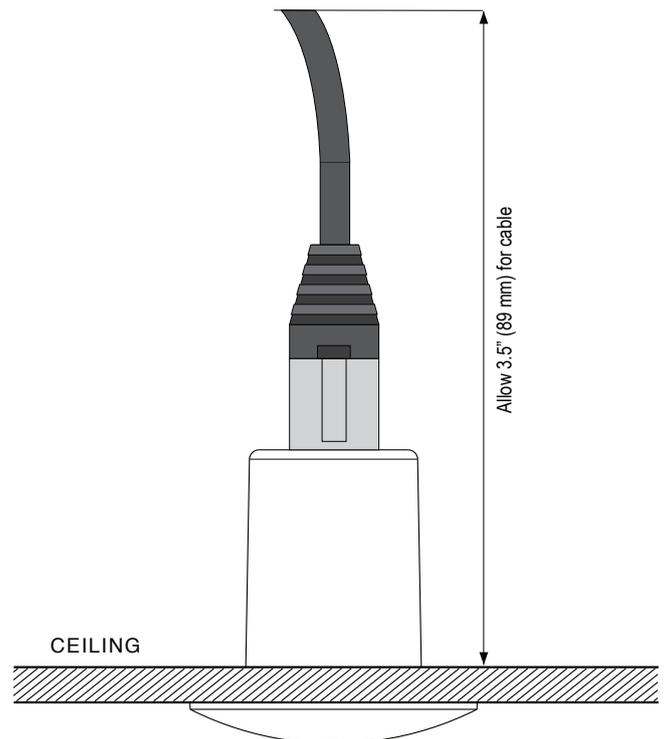
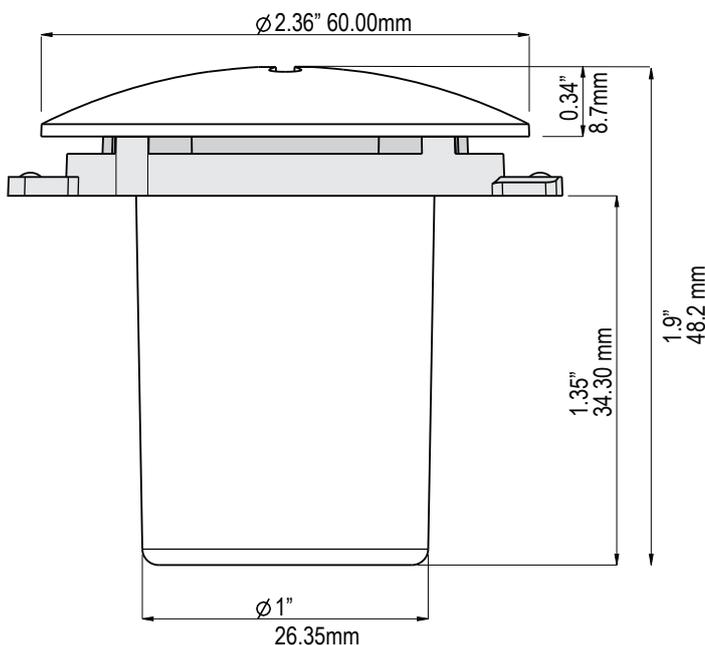
**-TH** Temperature, humidity, dew point

## Installation instructions

1. Using the base plate as a guide mark your screw hole locations on your mounting surface and drill a 1" (25mm) hole.
2. Affix the baseplate to the surface with screws.
3. Align the lugs on the underside of the sensor's mushroom with the corresponding spaces on the baseplate then slide the sensor into the hole and twist clockwise to lock in place.
4. From the other side of your mounting surface, attach the cable to the sensor.



## Dimensions



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