



SKU: IL- HASH-ENV



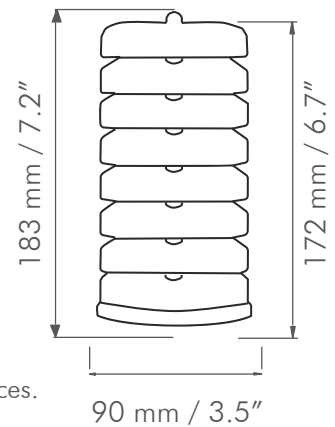
**HUMIDITY • HVAC • VPD • PAR • CO2 • LIGHTING • TEMPERATURE**

Wifi connected Environmental Sensor connects directly to the ILUMINAR HASH Controller to deliver realtime data logging directly to a smartphone or device, no PC is required. Control and view various points of data from an unlimited number of devices with additional Power Links. Expand to multiple facilities, rooms and zones with additional Environmental Sensors.

**TECHNICAL SPECS**

Input Power	9-25V DC, 0.5 Amp minimum
Wireless Communication	2.4 GHz Local RF
Temperature °C	-40 to 85 °C (Accuracy ± 0.5 °C near 25 °C)
Temperature °F	-40 to 185 °F (Accuracy ± 0.9 °F near 77 °F)
Humidity	0 to 99.5% RH (Non Condensing) (Accuracy ± 3%)
Pressure/Altitude	300-1100 hPA (Accuracy ± 1 hPA)
CO2	0 to 5000 ppm (Accuracy ± 2%)
Light	0 to 163,680 lux (Accuracy ± 80 lux)

**DIMENSIONS**



- ▶ Connect to ILUMINAR HASH Controller for high accuracy monitoring and full control of connected devices.
- ▶ Connect up to 6 wireless devices per HASH Controller plus 2 wired and 2 lighting zones.
- ▶ Monitor temperature, humidity, pressure/altitude, CO2, Vapor Pressure Deficit (VPD) and light levels. Utilizes highly accurate and reliable sensors (Bosch BME280 sensor, SH-DS industrial/greenhouse grade CO2 sensor, Phototransistor light sensor).
- ▶ Includes options for wall mounting or hanging.

**HARDWARE**

Hardware	ARM Cortex M3 Micro controller	RAM	128 K
Flash Memory	1MB RAM	SD Card	8 GB
		Battery Backup	Yes

**NOTES & BEST PRACTICES**

- ▶ Metal structures block wireless RF communication signals. If mounting the sensor inside a metal structure, make sure the HASH Controller is inside the same metal structure. The RF range can reach up to 1100 meters if there is a direct line of sight between the Environmental Sensor and the HASH Controller. In a dense industrial/greenhouse environment full of equipment & shelving, with no line of sight, the RF range is closer to 50 -100 meters.
- ▶ Do not expose Environmental Sensor to excessively humid environments where water droplets are condensing on surfaces. This can cause both the humidity sensor and the CO2 sensor to report higher than normal readings.
- ▶ Cover the Environmental Sensor with a bag prior to spraying or fogging the room. It can take up to 90 seconds for the CO2 sensor to warm up (from plugging it in) for it to begin to report accurate CO2 readings.
- ▶ Sensor readings are most accurate between 0 and 65 °C
- ▶ When cleaning the grow room or environment, please remove (or bag) the HASH Environmental Sensor. Neem oil or sulfur can damage the sensors.(32 and 149 °F).

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