



## Temperature & Humidity Sensors

Temperature and humidity sensors are designed to add comprehensive environmental monitoring to any iPDU.

Environmental sensors are engineered with an embedded microchip that converts analog signals to digital format before data travels to the PDU, providing greater data accuracy. This smart design also enables easy plug & play installation that takes just moments to complete. Installation of the sensors and ongoing equipment maintenance is further facilitated by the use of the Quick Disconnect Coupler and Ethernet cable, which allow for the convenient extension of sensors, movement of equipment, and an easy disconnect method for removing rack enclosure doors.



**Note:** The Temperature and humidity Sensors are only designed to connect to a G5 iPDU. Connecting it to another device may result in damage.

### **SPECIFICATION**

Electrical	Env Temp Sensor (EA001)	ENV Temp, Humidity Sensor (EB001)	Env 3- Temp, 1- Humidity Sensor (EC001)
Operational voltage	5V DC		
Measuring Range	-10~ +65°C	-10~ +65°C, 10~90RH	
Accuracy	±2° C	±2° C ±5% RH at 5-50°C 10~90RH	
Wire Type (From PDU to sensor box)	CAT.5E Patch Cable, UTP		
Physical			
Length	2m	2m (from PDU to sensor box) 1m (T1/ T3 Temp probe to sensor box)	
Environmental			
Maximum elevation, Above MSL	0-10000 ft. (0-3048m)/0-50000 ft. (0-15240m)		
Temperature (Operating/Storage)	0°C~+70°C (32 ~ 158°F)/-20~ + 70°C (-4 ~ 158°F)		
Humidity (Operating/Storage)	0 - 95%RH, non-condensing		
Compliance			
Environmental Verification	ROHS, WEEE		

## **SENSOR INVENTORY**

- **Sensor Assembly**



- **Cable ties**



- **RJ45 Quick Disconnect Coupler** to connect sensor cable to any standard ethernet cable for additional length and installation flexibility



- **Standard Ethernet Extension Cable**



## **INSTALLATION INSTRUCTIONS**

The following instructions apply to both the temperature and the humidity sensors.

1. Secure the sensor box to the perforated rack enclosure door by threading a cable tie through the recessed channel in the sensor box and through the door.

**Note:** There are two recessed channels on the back of the sensor box, which also includes a magnet to help secure the sensor.

2. Secure the RJ45 cable along the desired path to the PDU using the remaining cable ties.
3. For the EC001 sensors only: Secure the two additional temperature probes near the top and the bottom of the perforated rack enclosure door using the cable ties.
4. Use the RJ45 Quick Disconnect Coupler and an Ethernet cable to extend the length of the sensor input cable and/or to serve as an easy disconnect point for rack door removal.

**Note:** Use either the 1.8m Ethernet cable included with the sensor or any other CAT5 or CAT6 Ethernet cable with a standard RJ45 plug.

5. Plug the sensor cable (or the connected Ethernet cable) into the Sensor 1 or Sensor 2 port on the PDU or the Sensor Hub (EF001).