

SmartZone™ G5 Temperature and Humidity Sensors

specifications

Panduit temperature and humidity sensors are designed to add comprehensive environmental monitoring to any G5 iPDU. Environmental sensors are designed with an embedded microchip that converts analog signals to digital format before data travels to the iPDU, providing greater data accuracy. This smart design also enables easy plug and 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 patch cord, which allow for the convenient extension of sensors, movement of equipment, and an easy disconnect method for removing rack enclosure doors.



EA001



EB001



EC001

SmartZone™ G5 Temperature and Humidity Sensors

Temperature sensor:	EA001
Temperature and humidity sensor:	EB001
3 Temperature and humidity sensor:	EC001

technical information

Dimensions:	1.23 x 0.70 x 0.40 inches (44 x 21 x 11 mm)
Mounting:	Cable ties

*Mounting hardware included

key features and benefits

RJ45 connection	Utilizes an RJ45 plug socket to allow standard patch cord connection
Versatile mounting	Offers versatile mounting options to accommodate easy deployment inside a rack or within a room within a data center or facility building
Plugs directly to the iPDU	Simplifies installation as it self-identifies to the G5 iPDU firmware

applications

The SmartZone™ G5 Temperature and Humidity Sensors are designed to add comprehensive environmental monitoring to any iPDU. Secure the sensors to the cabinet or door using cable ties; a magnet has been added to the rear of the sensor to aid in placement. The accessory connects to the iPDU, or Sensor Hub (EF001), via RJ45 quick disconnect coupler and Ethernet patch cord.

SmartZone™ G5 Temperature and Humidity Sensors

technical specification

Electrical	
Operational Voltage	5V DC
Accuracy	±2°C ±5% RH at 5-50°C 10~90% RH
Measuring Range	0°C~+65°C, 10 – 90% RH, non-condensing
Physical	
Length	2 m
Environmental	
Elevation Above MSL (Operating/Storage)	0 – 10000 feet (0 – 3048m)/0-50000 feet (0 – 15240 m)
Temperature (Operating/Storage)	0°C~+65°C (32~149°F)/-20~ + 70°C (-4 ~ 158°F)
Humidity (Operating/Storage)	0 – 95% RH, non-condensing (storage) 10 – 90% RH, non-condensing (operating)
Compliance	
Environmental Verification	ROHS, WEEE



**Temperature Sensor or
Temperature + Humidity
Sensor**

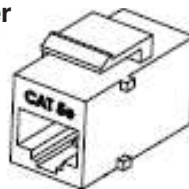


**3 Temperature &
Humidity Sensor**

Cable Ties



**RJ45 Quick
Disconnect Coupler
Sold Separately**
Panduit
Part Number:
CC5E88BL



**Standard Ethernet
Extension Cable
Sold Separately**
2.0m length
Panduit
Part Number:
UTP28CH2MBL



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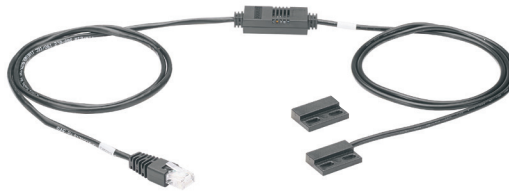
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PUSP71--WW-ENG
1/2018

SmartZone™ G5 Door Switch Sensor

specifications

The door switch (magnetic 2 piece) sensor is designed to send an alarm or notification signal when the cabinet door is opened more than 10mm.



SmartZone™ G5 Door Switch Sensor

Door Switch Sensor: ACA01

technical information

Dimensions:	1.73 x 0.83 x 0.43 inches [44 x 21 x 11 mm]
Mounting:	Cable ties and double-sided tape

*Mounting hardware included

key features and benefits

Door Access	Detects access to a rack, cabinet or room in a data center
RJ45 Connection	Utilizes an RJ45 quick disconnect coupler to allow standard patch cable connection
Versatile mounting	Offers versatile mounting options to accommodate easy deployment inside a rack or within a room within a data center or facility building
Plugs directly to the iPDU	Simplifies installation as it self identifies itself to the G5 iPDU firmware

applications

The SmartZone™ G5 Door Switch (magnetic 2 piece) Sensor is designed to send an alarm or notification signal when the cabinet door is opened more than 10mm. The magnetic door sensor portion of the solution can be mounted on the top of the cabinet or inside the door. By plugging the cable into a sensor port on the G5 iPDU, you are ready to log onto the web interface to manage the door sensor alarm and notification settings.

SmartZone™ G5 Door Switch Sensor

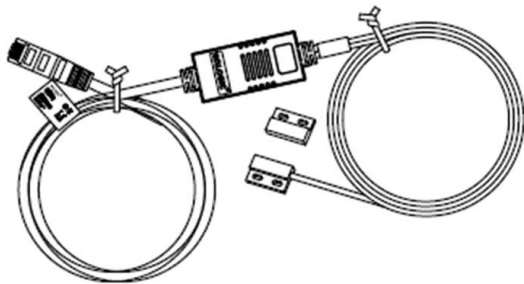
technical specification

Electrical	
Operational voltage	5V DC
Operational Gap	>10mm
Physical	
Length	2 m (From PDU to sensor box) 1 m (From Magnetic Switch to sensor box)
Wire Type (From PDU to sensor box)	CAT.5E Patch Cable, UTP
Environmental	
Maximum elevation, above MSL (Operating/Storage)	0-10000 feet (0-3048m)/0-50000 feet (0-15240 m)
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

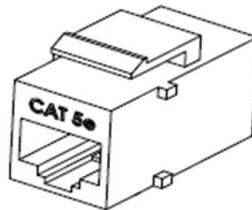
dimensions

Sensor Inventory

Door Switch Sensor Assembly



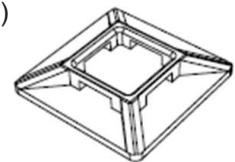
RJ45 Quick Disconnect Coupler



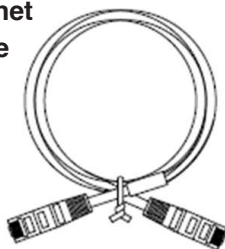
Tap Screw (quantity: 4)



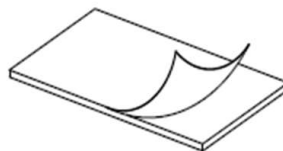
Adhesive Backed Mount (quantity: 5)



Standard Ethernet Extension Cable 3.6m in length



Double-Side Tape (quantity: 2)



Cable Ties (quantity: 5)



Note: The Door Switch Sensor is only designed to connect to a G5 iPDU. Connecting it to another device may result in damage.

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Hub de Sensores SmartZone™ G5

especificaciones

El *hub* de sensores permite añadir tres puertos para sensores adicionales a una unidad inteligente de distribución de energía (iPDU). Por cada iPDU, se pueden instalar dos *hubs* de sensores. Los sensores ambientales se diseñaron con un microchip embebido que transforma las señales analógicas en formato digital antes de que los datos viajen hacia la iPDU, lo que proporciona datos mucho más precisos. Este diseño inteligente facilita una instalación sencilla de *plug and play*. El *hub* de sensores permite que se conecten hasta seis sensores ambientales por cada iPDU para, así, conseguir una mayor eficiencia.



Hub de sensores G5 SmartZone™

Hub de sensores: EF001

información técnica

Dimensiones: 85mm x 32mm x 27mm [3.3 x 1.3 x 1.06 pulgadas]

Montaje: Amarras plásticas y cinta adhesiva de doble cara

*Se incluye el material de montaje.

características clave y beneficios

Conexión RJ45	Usa un conector RJ45 para permitir que el cable estándar de Ethernet se pueda conectar al puerto Sensor-1 o Sensor-2 en la iPDU
Montaje versátil	Proporciona opciones de montaje versátiles para facilitar la implementación en un <i>rack</i> o un cuarto de un centro de datos o edificio

aplicaciones

El *hub* de sensores SmartZone™ G5 permite añadir tres puertos adicionales para sensores a una iPDU. Para monitorear cambios en su centro de datos, puede añadir los siguientes sensores ambientales: sensor de temperatura, de temperatura y humedad, tres sensores de

temperatura y humedad, sensor de cuerda para detectar fugas y humedad, o sensor de contacto de agua. Obtenga la protección adicional que necesita para conseguir una mayor eficiencia operativa.

información técnica

Eléctrica	
Voltaje de operación	5VDC
Ambiental	
Elevación sobre el nivel del mar (operación y almacenamiento)	De 0 a 3048m (de 0 a 10,000 pies) / De 0 a 15,240m (de 0 a 50,000 pies)
Temperatura (operación y almacenamiento)	0°C~+65°C (32~ 149°F)/-20~ + 70°C (-4 ~ 158°F)
Humedad (operación y almacenamiento)	De un 0 % a un 95 % de humedad relativa (HR) y sin condensación para su almacenamiento De un 10 % a un 90 % de humedad relativa (HR) y sin condensación para su operación
Cumplimiento	
Verificación ambiental	ROHS, WEEE

dimensiones

Productos incluidos

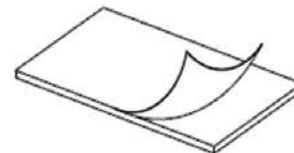
Hub de sensores



Amarras plásticas



Cinta adhesiva de doble cara



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3/2022



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).