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CyberPower

SNEV001
Environmental
Sensor

CyberPower SNEV001 Environmental Sensor User Manual

Contents

CyberPower

**CyberPower SNEV001 Environmental Sensor**

OVERVIEW

The CyberPower environmental sensor (SNEV001) along with selected Remote Management Cards (RMCARDXXX) or most Switched and Monitored PDUs enables users to monitor the temperature and humidity of a server closet and/or data center remotely. With CyberPower's PowerPanel® Business software, users can establish thresholds that will automatically notify users when an event has occurred via email, SMS and SNMP traps. Additionally, the SNEV001 provides four input dry contacts that enable users to monitor the status of connected devices, such as door switch sensors.

FEATURES

- Real time environment monitoring
- Remote management and configuration of the sensor via Web Browsers or NMS
- Automatic events notification via email, SMS and SNMP traps
- Four input dry contacts application interface provided
- Displays the name and location of the sensor and connected devices
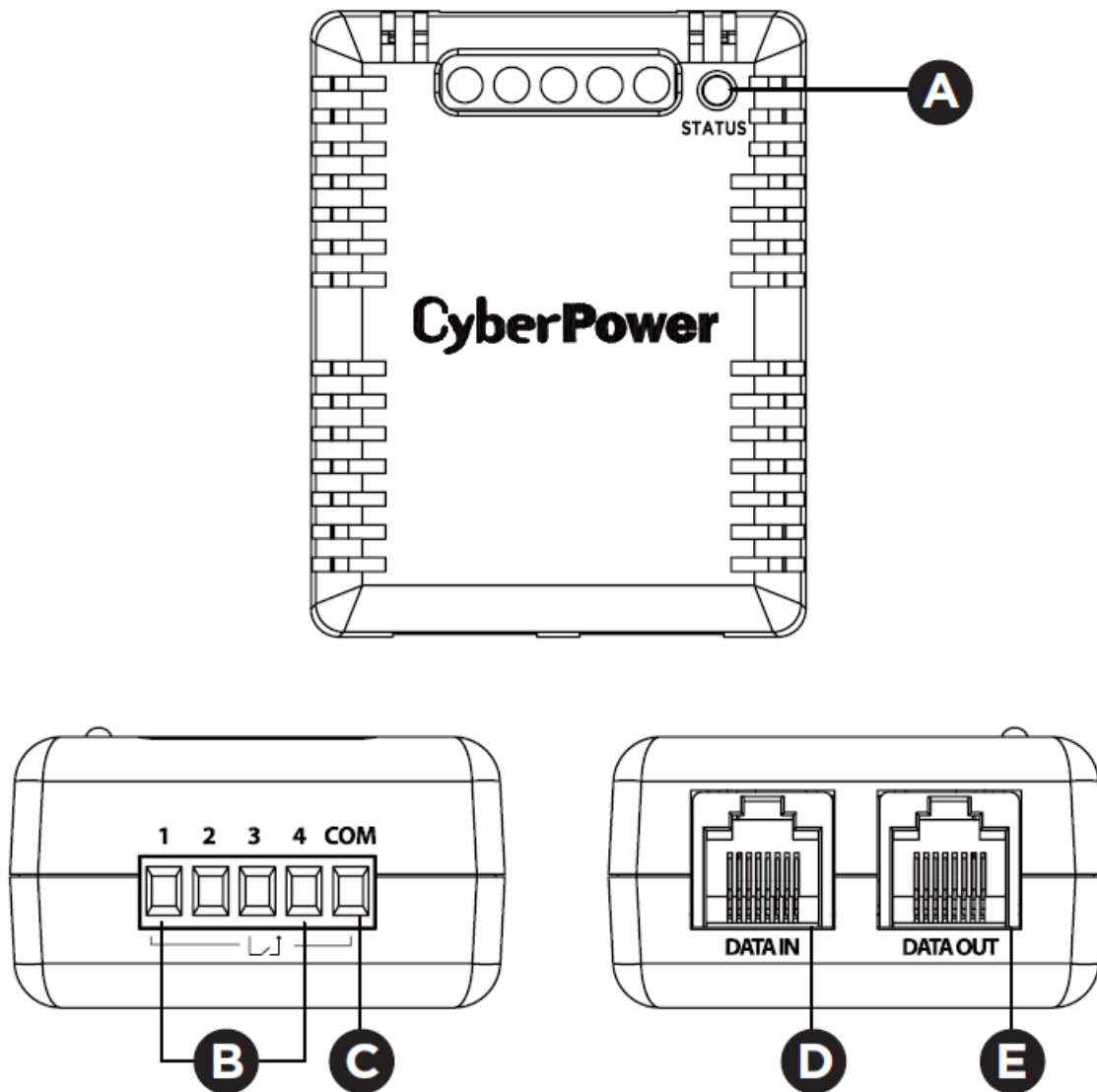
- A. Status LED
- B. Input Dry Contact 1-4
- C. Common Connection
- D. RJ45 Port

  Connect to RMCARD/PDU or previous on-line SNEV001
- E. RJ45 Port

  Connect to next SNEV001

Input Dry Contact Application
Do not input signals that carry voltage into the input dry contacts. The input dry contacts only allow for open/short circuit.

Dry Contact

External Sensor 1/2/3/4
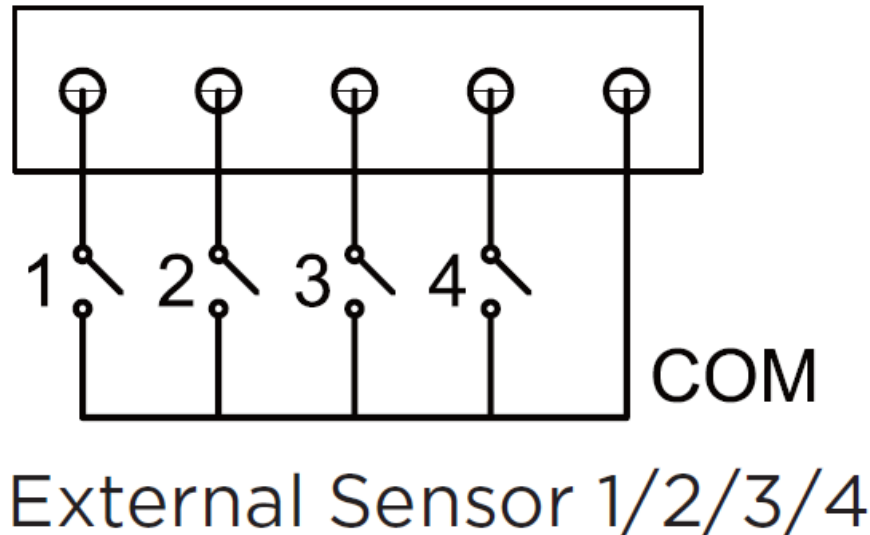
PACKAGE CONTENTS

1. SNEV001
2. Hook and loop tape
3. User Manual
4. Flat Head Screw (M3x20) with plastic nylon anchors
5. CAT5 RJ45 Ethernet Cable (10 ft. / 3.0 m)

SPECIFICATIONS

- Model Number: SNEV001
- Input Voltage: 7V – 28V
- Temperature: 14-158°F with accuracy +/- 0.9°F
  -10-70°C with accuracy +/- 0.5°C
- Humidity: 10-90 RH with accuracy +/- 2%
- Connection Port: RJ45 Port
  Daisy Chain x 8 maximum
- Input Dry Contact: 4
- Dimensions: 2.63 x 2.08 x 1.14 in.
  67 x 53 x 29 mm
- Weight: 1.69 oz / 48 g
- Safety Approvals: FCC Class B, CE, EAC
- Warranty: 3-Year Limited

WARNING: This product can expose you to chemicals including bisphenol A (BPA) and styrene (ABS), which is known to the State of California to cause reproductive harm and cancer. For more information, go to **www.P65Warnings.ca.gov**

INSTALLATION GUIDE

Method 1: Hook and Loop Tape Mounting

- **Step 1.** Clean the surface of the area where the sensor will be installed. Apply one side of the hook and loop tape to the bottom of the sensor and the other side to the sensor location.
- **Step 2.** Attach the sensor on the surface and hold for about 5 seconds to ensure cohesion.
  NOTE: Once the sensor is installed, you will want to leave it in place to ensure the hook and loop tape maintains its adhesiveness.
- **Step 3.** To connect the sensor with RMCARD/PDU, use the attached RJ45 Ethernet Cable. Plug one end into the RJ45 Port (DATA IN) and the other end into the RMCARD/ PDU. Furthermore, if daisy chain function is needed, plug one end into the RJ45 Port (DATA OUT) and the other end into the RJ45 Port (DATA IN) of another sensor.

NOTE: If the distance of RMCARD/PDU and the sensor is longer than 10 feet/3.05 m, use a standard RJ45 Ethernet Cable as needed (max 50 feet/15 m).
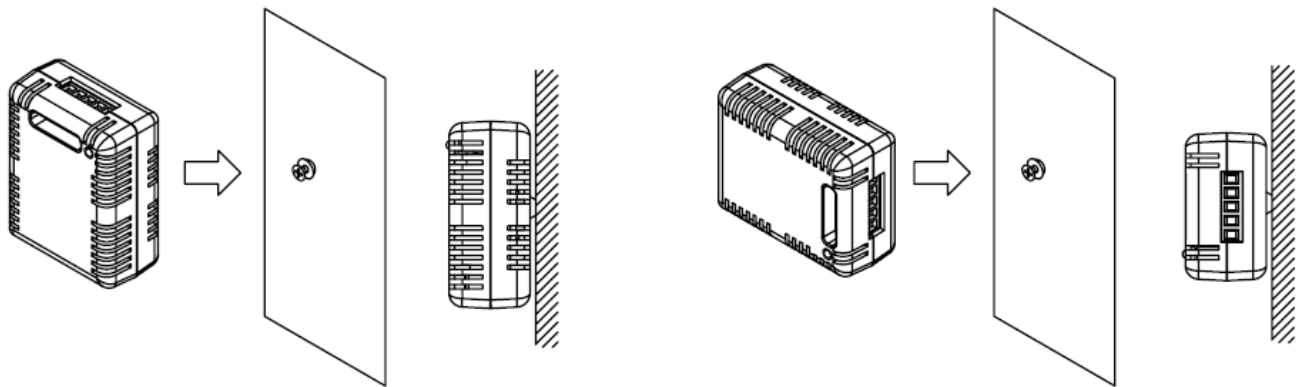**WARNING**: Maximum daisy chain: 8 pcs
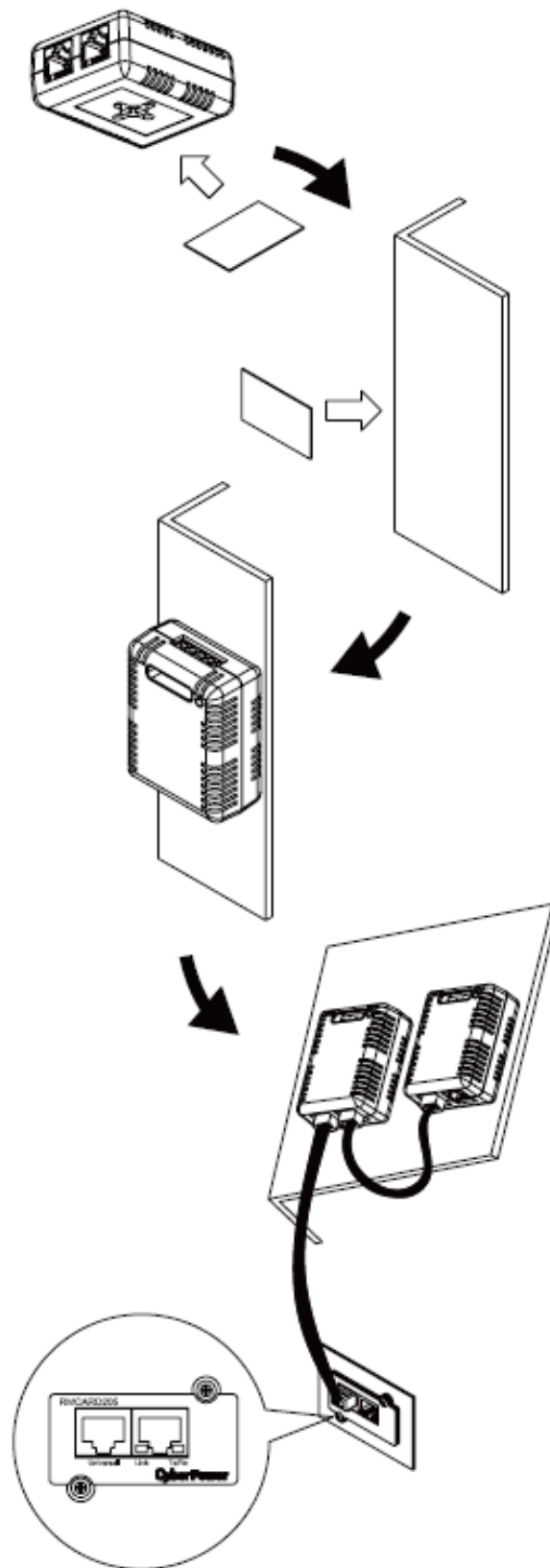
Method 2: Fixed Mounting

- **Step 1.** Drill a hole that is compatible with the anchor and insert the included anchor.
- **Step 2.** Insert and tighten the screw into the anchor. Leave enough of the screw exposed for the sensor to be mounted to.

Hole⌀6mm(0.24in)
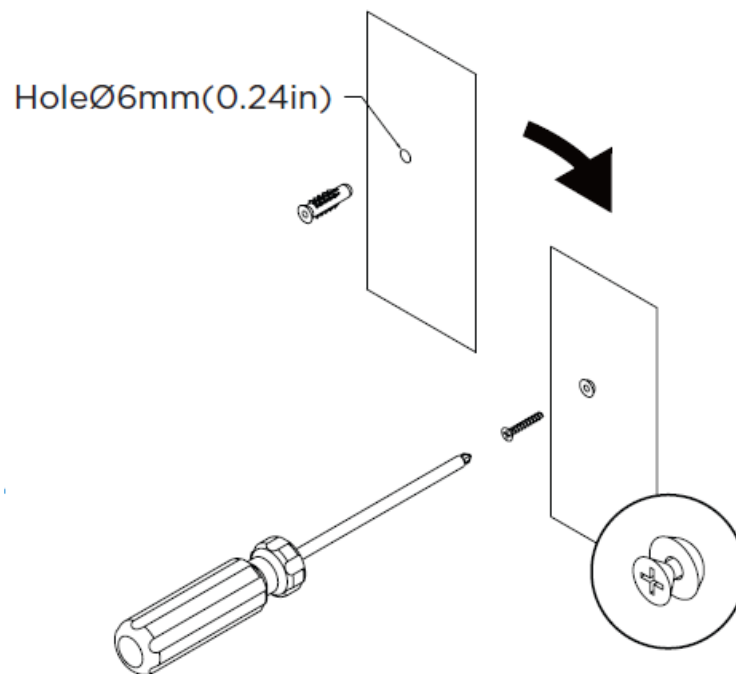
- **Step 3**. Hang the sensor horizontally or vertically.

- **Step 4**. To connect the sensor with RMCARD/PDU, use the attached RJ45 Ethernet Cable. Plug one end into the RJ45 Port (DATA IN) and the other end into the RMCARD/PDU. Furthermore, if daisy chain function is needed, plug one end into the RJ45 Port (DATA OUT) and the other end into the RJ45 Port (DATA IN) of another sensor.
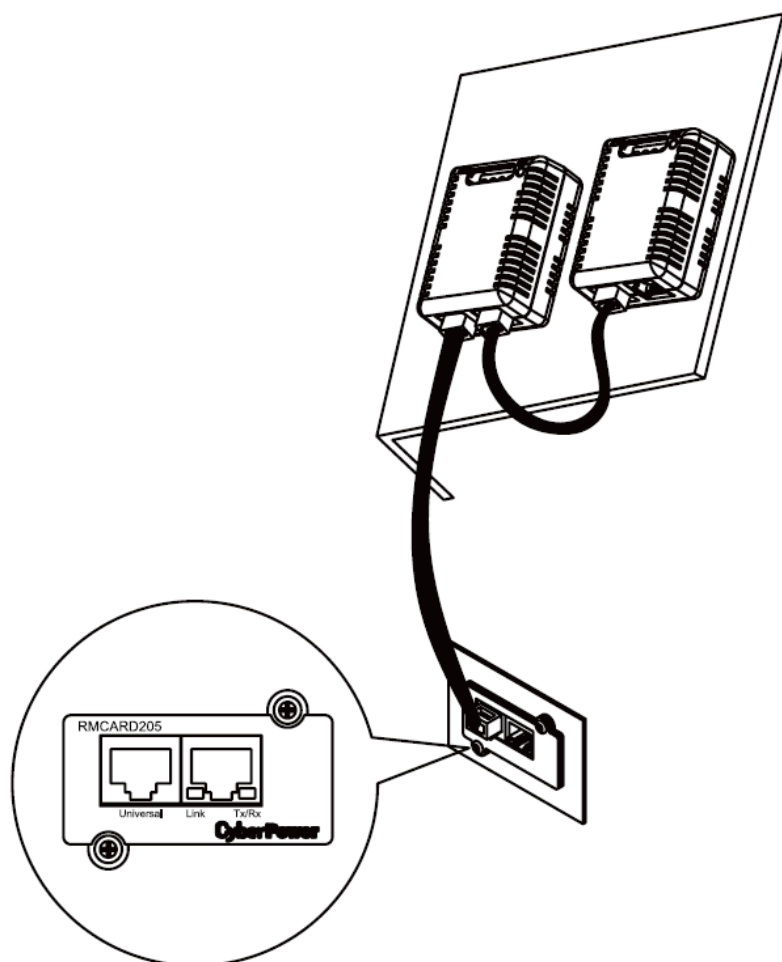
For further configuration information, please refer to the RMCARD/PDU user's manual.

TROUBLESHOOTING

Problem	Solution
The RMCARD/PDU is not able to acquire environment sensor's information	Check the LED. When the connection is ok, the LED should always be on; otherwise, ensure the RJ45 Ethernet cable is correctly connected to the RMCARD/PDU and sensor. **Note**: Do not use a crossover cable which is for Tx/Rx.
The Input Dry Contact does not function correctly	Ensure the Input Dry Contact wires are correctly connected and make sure the open/short circuit setting of the connected devices is the same as the setting on the Web Interface.

 DISPOSAL
The Waste Electrical and Electronic Equipment (WEEE) Directive aims to contribute to sustainable production and consumption by contributing to the efficient use of resources and the retrieval of secondary raw materials through re-use, recycling and other forms of recovery. The symbol on this product and/or its packaging indicates that the product must be disposed of separately from ordinary household wastes at its end of life. Contact your related WEEE management authority, local office, or your household waste disposal service about information on the recycling drop off site.

FOR MORE INFORMATION

Visit **CyberPowerSystems.com** for more information regarding:

- Product information and certifications
- Product warranty
- Connected equipment guarantee

TECHNICAL SUPPORT

Visit: **CyberPowerSystems.com/support**
Toll-Free: 1-**877-297-6937**
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CONFORMANCE APPROVALS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interfer-ence to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Documents / Resources
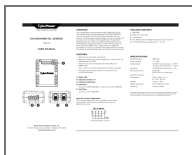
	CyberPower SNEV001 Environmental Sensor [pdf] User Manual SNEV001 Environmental Sensor, SNEV001, Environmental Sensor, Sensor

References

- **CyberPower UPS Systems, Battery Backup, PDUs, USB Surge Protectors**
- **Support | CyberPower**
- **P65Warnings.ca.gov**
- **User Manual**