

NEXSYS

UPS Environmental Sensor

User Manual 100-00075 RevA





IMPORTANT SAFETY INSTRUCTIONS - EN

SAVE THESE INSTRUCTIONS - This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

For complete safety instructions, refer to either Line Interactive or Online UPS User Manuals (100-00072 and 100-00092, respectively) at www.legrandav.com.

- · Only use attachments and accessories specified by the
- Read all instructions before using the product

INSTRUCTIONS IMPORTANTES SUR LA SÉCURITÉ - FR

CONSERVER CES INSTRUCTIONS - Ce manuel contient des instructions importantes qui doivent être suivies lors de l'installation et de la maintenance de l'onduleur et des batteries

Pour obtenir des instructions de sécurité complètes, reportez-vous aux manuels d'utilisation Line Interactive ou Online UPS (100-00072 et 100-00092, respectivement) à www.legrandav.com.

- · Utiliser uniquement les accessoires spécifiés par le fabricant
- Lisez toutes les instructions avant d'utiliser le produit.

Supplied Components and Hardware

After carefully opening all product packaging, identify the supplied components and hardware shown.

If any pieces are missing or damaged, please report it immediately to Technical Support at

av.middleatlantic.techsupport@legrand.com or (866) 977-3901.

Keep the original box in a safe place for future use





Quick Start Guide

Tools • #2 Phillips

Required / WARNING: Use tools with caution and follow all safety

AVERTISSEMENT: Utiliser des outils avec prudence et suivre tous les protocoles de sécurité.

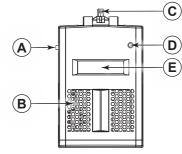
Introduction

Screwdriver

The NEXSYS UPS Environmental Sensor (UPX-TEMP-CONT) monitors temperature, humidity, and other conditions in a room environment.

The device provides four digital input connections for external sensor devices (not provided) and supports both RS-232 or RS-485 communication protocols (selectable via DIP switch).

Feature Set Front of Environmental Sensor



A. Push Switch

Controls the LCD display as follows: Press and hold the button for .2 seconds to turn the backlight ON or OFF.

Front of Environmental Sensor (Continued)

NOTE: The backlight automatically turns off after a minute unless it's done manually.

 Press and hold the switch for 1 second to force the backlight to remain lit.

B. Internal Sensors

Temperature and humidity sensors.

C. Installation Hook

Attaches the unit to an enclosure, rails, or other locations.

D. System Indicator

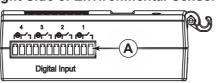
The Green LED indicates the following statuses:

- · Continuously Lit: The unit is powered on.
- · Off: The unit is not powered on or is malfunctioning.
- · Blinking: The unit is transferring data.

E. LCD Display

Shows temperature and humidity readings.

Right Side of Environmental Sensor

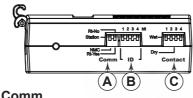


A. Digital Input

- · Connect dry contact sensors or wet 5-24V sensors to the 4 digital inputs shown.
- Use the Contact DIP switches on the left side of the unit to configure the 4 digital inputs for wet or dry operation.

For more information, see the "Setting Digital Input PINs for Wet or Dry Contact Sensors" topic.

Left Side of Environmental Sensor



A. Comm

Use these 2 DIP switches to select either RS-485 or RS-232 communication modes. For more information, see the "Setting Comm DIP Switches" topic.

B. **ID**

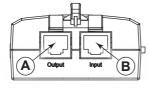
These 4 DIP switches currently are not used.

Left Side of Environmental Sensor (Continued)

C. Contact

Use these 4 DIP switches to configure the 4 digital inputs on the right side of the unit to use either dry contact sensors or wet 5-24V sensors. For more information, see the "Setting Contact DIP Switches" topic.

Top of Environmental Sensor



A. Output Port

Not currently used.

B. Input Port

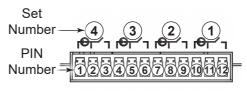
COM Port (Sensor Port) for communication with the RackLink Network Card.

Page 3

Setting Digital Input PINs for Wet or Dry Contact Sensors

Refer to Set and PIN Number input locations and definitions for your specific wet or dry contact néeds.

Understanding Set and PIN Number Locations



Understanding Set and PIN Number Definitions

Connect wet contacts as follows: + to DI and - to DICOM.

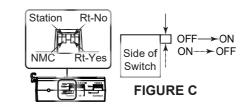
Connect dry contacts to corresponding DICOM and DIGROUND pins.

Set Number	4			3		
PIN Number	1	2	3	4	5	6
Definition	DI	DICOMM	DIGND	DI	DICOMM	DIGND
Set Number	2			1		
PIN Number	1	2	3	4	5	6
Definition	DI	DICOMM	DIGND	DI	DICOMM	DIGND

Setting the Communication Mode via Comm DIP Switches

The two communication mode DIP switches allow you to switch between RS-435 and RS-232 (the first DIP switch) and enable or disable a termination resistor for each protocol (the second DIP switch). (FIGURE C)

NOTE: When using RS-232, we recommend disabling the termination resistor and enabling it when using RS-485.



DIP Switch 1	Communication Mode	
OFF	Station, RS-485	
ON	NMC, RS-232	

DIP Switch 2	110Ω Terminal Resistor Status
OFF	When using RS-232, disable the 110Ω terminal resistor.
ON	When using RS-485, enable the 110Ω terminal resistor.

Installing Your Sensor

NOTE:

- Plan the location of your sensor considering all the necessary connections and cable routing required for your use.
- Avoid installing the sensor in direct sunlight, near a heat source, or next to a window that might provide inaccurate readings.

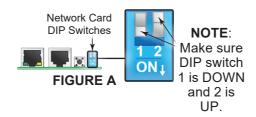
Use any of the following methods to hook, mount, or attach your sensor as follows

- Use the installation hook to attach the sensor to an enclosure, rails, or other location.
- Use hardware (not provided) to mount the unit to a wall, if desired.
- Use the magnetic bottom of the sensor to attach the unit to metal surfaces.



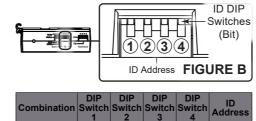
Setting Network Card DIP Switches

Before connecting the sensor to your network card, you must set the DIP switches on the card with switch 1 down (ON) and switch 2 up (OFF) as shown. (FIGURE A)



ID DIP Switches

The ID DIP switches come from the factory with each one in the OFF setting (up) as shown. Since they are not currently used, there is only one address (0) as indicated on the table below. (FIGURE B)

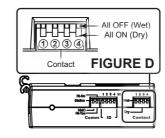


OFF OFF OFF

Page 4

Setting Contact DIP Switches

Turn all 4 DIP switches ON or OFF to use either a dry contact sensor or wet 5-24V sensor, respectively. (FIGURE D)



DIP Switch 1	DIP Switch 2	DIP Switch 3	DIP Switch 4	Contact Status
OFF	OFF	OFF	OFF	Wet Contact
ON	ON	ON	ON	Dry Contact

Page 5

Warranty

For warranty information, refer to www.legrandav.com/policies/warranty information.

Contacting Corporate Headquarters P: (866) 977-3901 | F: (877) 894-6918 www.legrandav.com av.middleatlantic.techsupport@legrand.com

Contacting Middle Atlantic Canada

P: (888) 766-9770 | F: (888) 599-5009 ca.middleatlantic.com av.canada.customerservice@legrand.com

United States (US)

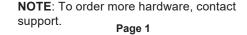
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Page 6



Page 2