

# Proactive Infrastructure Management for IT Rack Equipment

Liebert® RDU-S™ Rack Performance Monitoring Device

Bring enterprise-level visibility and proactive infrastructure management tools into your network, with the Liebert RDU-S. This leading-edge device provides consolidated monitoring ability at the rack level, allowing for real-time updates and proactive management.



The compact rack-mounted processing unit is designed to monitor the environment through various types of inputs – temperature, humidity, water, smoke, motion and door sensors, as well as cameras. The device provides SNMP support for monitoring through Liebert Nform™ as well as web page support for configuration and notifications. The Liebert RDU-S is Ethernet-ready and Web-enabled.

Plug and play installation and a simple user interface makes it easy to set up and use. The Liebert RDU-S allows the user to:

- Set predefined thresholds.
- Detect and be notified of critical conditions for parameters such as temperature and humidity within data centers and individual racks.
- Export historical data and analyze for trends to help avoid the same issues in the future.

#### Features:

- Universal power supply and 0/1 U rack monitoring.
- Two digital output ports for beacon or other visual signaling devices.
- 8 GB SD card for video storage.
- Two USB ports for cameras.
- 10/100 Mbps Ethernet.
- Three digital input ports (motion & smoke detectors).
- Two Liebert SN sensor ports.

#### Ideally suited for:

- High availability critical rack-based applications.
- Small remote sites.

## Digital Input Sensors

### MOTION SENSOR

- Detecting method: Infrared
- Sensor: passive, dual-element
- Connector: RJ-45
- Connects to RDU-S via DI1, DI2 or DI3 port
- Detection Range: 5-15m

### SMOKE SENSOR

- Protection Coverage :  $\geq 40\text{m}^2$
- Display: LED
- Connector: RJ-45

### BEACON

- Operating Voltage: DC12V( $1\pm 15\%$ )
- Connects to DO1 or DO2 and 12v DC
- Stroboscopic alarm w/o sound
- Accessory: Mounting bracket and magnet

### MICRO SD

- Extended memory
- For picture and video local storage

## Liebert SN Sensors

### MODULAR TEMPERATURE SENSOR

- Accuracy:  $\pm 0.5^\circ\text{C}$
- Connector: 2 RJ-45 jacks
- Cable: 2m Ethernet cable
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting bracket and hardware included

### MODULAR TEMPERATURE AND HUMIDITY SENSOR

- Accuracy:  $\pm 0.5^\circ\text{C}$
- Accuracy:  $\pm 5\%$  RH
- Connector: 2 RJ-45 jacks
- Cable: 2m Ethernet cable
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting bracket and hardware included

### MODULAR 2 DOOR SWITCH SENSOR

- Sensing Method: dry contact
- Connector: 2 RJ-45 jacks
- Cable: 2m Ethernet cable
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting bracket and hardware included

### MODULAR 3 DRY CONTACT SENSOR (DIGITAL INPUTS)

- Sensing Method: dry contact
- Connector: 2 RJ-45 jacks
- Cable: 2m Ethernet cable
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting bracket and hardware included

### USB CAMERA

- Connect to RDU-S via USB cable
- Resolution: VGA (720 x 680 : 480K pixels)
- Focus: 30cm~infinity
- Maximum frame rate: 20 frames/second
- Night vision
- USB 2.0
- Connector: USB cable (1.5m max)
- Accessory: None

### USB CAMERA

- Connect to RDU-S via USB cable
- Resolution: VGA (640 x 480 : 300K pixels)
- Focus: 30cm~infinity
- Maximum frame rate: 20 frames/second
- Tilting and panning
- USB 2.0
- Connector: USB cable (1.5m max)
- Accessory: Mounting bracket

### INTEGRATED TEMPERATURE SENSOR

- Accuracy:  $\pm 0.5^\circ\text{C}$
- Connector: RJ-45
- Cable: 3.6m
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting bracket and hardware included

### INTEGRATED 3 TEMPERATURE SENSOR

- Accuracy:  $\pm 0.5^\circ\text{C}$
- Connector: RJ-45
- Cable: 3.6m to first sensor, 0.75m between sensors
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting brackets and hardware included

### INTEGRATED 3 TEMPERATURE AND HUMIDITY SENSOR

- Accuracy:  $\pm 0.5^\circ\text{C}$
- Accuracy:  $\pm 5\%$  RH
- Connector: RJ-45
- Cable: 3.6m to first sensor, 0.75m between sensors
- Housing: black plastic
- DIP Switch: not required
- Connects to Liebert SN port
- Mounting brackets and hardware included

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SL- 31320 (R12/13) Printed in USA

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