

Environmental Monitoring Module and Sensors

Key Features

- > Each EMCU-1-1B is accessible via IP through networked CDU
- > HTML GUI, Telnet or SNMP management
- > Cabinet Environment Status:
 - > Supports two dual-function temperature & humidity probes (% RH)
 - > Water & fluid detection sensor
- > Cabinet Intrusion Detection:
 - > Supports four dry contact closure door sensors
- > Analog Input Sensor
 - > Supports supplementary sensor requiring power feed
- > Notification Warnings:
 - > SNMP and e-mail alerts through CDUs interface
- > Thresholds & SNMP Traps to two destinations
- > IP Management through Sentry CDUs
 - > HTML Web Interface
 - > Command Line Interface
 - > No additional software required
- > Mounting
 - > Flexible zero U mounting
 - > Fast installation -- 5 minutes or less
- > Warranty: 2 years



IP-based Solution for Monitoring Environmental Conditions in the Data Center Equipment Cabinet

Ever increasing densities of vertically racked servers conserve valuable floor space in the data center, but the resulting power consumption and heat dissipation create new concerns for data center managers. Environmental Monitoring, particularly temperature & humidity, is a must for any sensitive infrastructure. The most recent ASHRAE thermal guidelines suggests three measurement points in the equipment rack.

Server Technology Smart and Switched CDUs support two combination temperature/humidity probes on the Master unit. Newer Expansion units support two additional sensors. If additional probes are required, the EMCU-1-1B Environmental Monitor provides additional inputs.

Each EMCU supports:

- > 2 Additional temperature and humidity measurements
- > Water sensor
- > 4 Dry contact closure door sensors

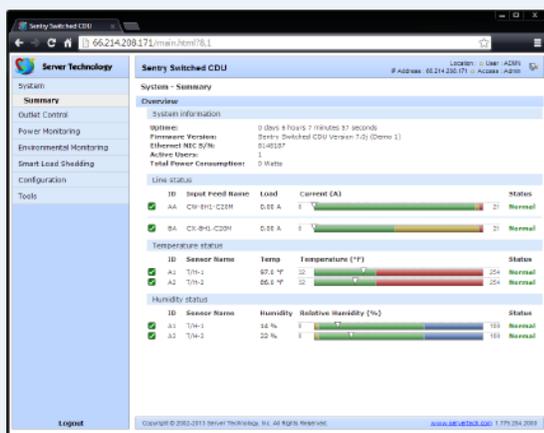
The EMCU-1-1B assures network managers that environmental conditions are within defined tolerances and that unauthorized entry into the equipment cabinets does not go unnoticed.

The EMCU-1-1B can be located in data centers, co-lo sites, web hosting facilities, telecom switching sites, POP sites, server closets, and any unmanned area that needs to be monitored. Install the EMCU-1-1B in the equipment cabinet and gain access to environmental conditions from a web or serial interface through one of Server Technology's IP addressable CDUs.

Model	Description	Mounting
EMCU-1-1B	Environmental Monitor Control Unit with (1) combination Temperature & Humidity Probe 10ft (3m)	Mounting tabs included for zero U mounting
EMTH-1-1	Temperature & Humidity Probe 10ft (3m)	—
EMWS-1-1	Water Sensor Probe, 12 in. (305 mm) detection cable, 10 ft (3 m) connection cord	—

Additional Specifications

Interface through HTML GUI



Web Interface

- > Temperature
- > Humidity
- > Water Detection
- > Door Cabinet Status

Repeatability

+/- 0.15 RH / +/- 0.25 °C

Temperature Accuracy

5 °C to 40 °C: < +/- 0.75 °C

0 °C to 5 °C: < +/- 1 °C

40 °C to 123 °C: < +/- 3 °C

Measurement Range

0% to 100% RH / 0 °C to 123.5 °C

Absolute RH Accuracy

20% to 80% RH: < +/- 3%

0% to 20% and 80% to 100%: < +/- 5%

Analog Sensor

Accepts 3rd party analog sensors. Input 0 V to +5 VDC

Water Sensor Probe

- 1 ft (0.3 m) water sensing cable

- 10 ft (3 m) connector cord

- Flexible, thermally bonded polymer coated sensor for increased strength and durability

Accepts up to four 3rd party contact closer sensors. Wago® spring-loaded 3-position terminal block

LED Confirmation Indicators

Signal "Fault" conditions to contact closures

Dimensions (H x W x D)

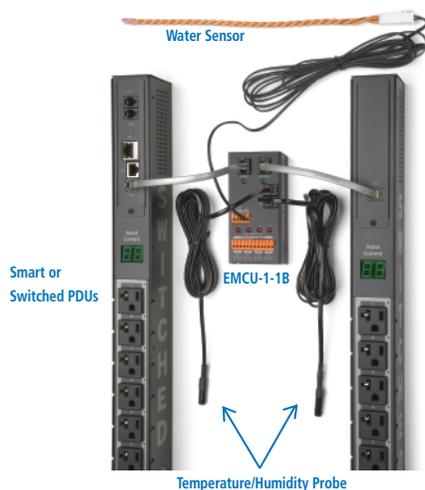
EMCU: 4.57 x 2.32 x 1.22 in. (116 x 59 x 31 mm)

Weight

EMCU-1-1B: 8.8 oz. (250 g)

EMTH-1-1: 1.6 oz. (45 g)

EMWS-1-1: 3.2 oz. (91 g)



HEADQUARTERS -
NORTH AMERICA
Server Technology, Inc.
1040 Sandhill Drive
Reno, NV 89521
United States
1.775.284.2000 Tel
1.775.284.2065 Fax
sales@servertech.com
www.servertech.com
www.servertechblog.com

Western Europe, Middle East and
Africa
Server Technology
Fountain Court
2 Victoria Square
Victoria Street
St. Albans
AL1 3TF
United Kingdom
+44 (0) 1727 884676 Tel
+44 (0) 1727 220815 Fax
salesint@servertech.com

Central Europe, Eastern Europe and
Russia
Niederlassung Deutschland
Server Technology LLC
42119 Wuppertal
Germany
Tel: + 49 202 693917 x 0
Fax: + 49 202 693917-10
salesint@servertech.com

APAC
Server Technology
Room 2301, 23/F, Future Plaza
111-113 How Ming Street,
Kwun Tong, Hong Kong
Direct line: +852 3916 2048
Fax Line: +852 3916 2002
salesint@servertech.com