

# Smart Power Monitor

## CS-2HD2/HDE

### Key Features

- > **Input Current Monitor:**  
Precisely measure the aggregate current draw (in amps) on each power circuit. Networked verification via web browser or serial screen.
- > **High Density:** 208-240V 30-Amp and 230V 32-Amp input/output options.
- > **IP Access & Security:** Web interface, SSL, SSH, telnet, SNMP, FTP, SNT, Syslog, LDAP, LDAPS, RADIUS, TACACS and RS-232 access.
- > **Environmental Monitoring:**  
Supports two external temperature and humidity probes and reports conditions thru the user interface without the need for additional IP addresses .
- > New Digital TRMS current monitoring ensures accuracy.
- > **Alerts:** Provides automated SNMP-based alarms or email alerts for power and environmental conditions.



### Digital TRMS Current Load Metering

Allows the ability to easily add input current load or power monitoring to any existing cabinet via an integral web based interface or through a serial connection. This allows you to determine:

- 1) if there is available power to add additional devices to the cabinet
- 2) if you are close to exceeding the circuit's capacity and triggering an over current protection device bringing down the power in-feed
- 3) the proper loading of each CDU's power in-feed to ensure redundancy.

Note: In an A and B power in-feed configuration each Cabinet Power Distribution Unit (CDU) should not be loaded to over 40% of the rated load to ensure that if one of the power in-feeds is lost that the whole load can be supported by the CDU that still has power available.

### Additional Benefits



#### Temperature and Humidity

The Smart CDU supports two external 10ft (3m) probes. Each of these probes measure both temperature and humidity. Receive SNMP-based alerts or email notifications when conditions exceed defined thresholds.



#### Input Current Monitoring

The Digital True RMS current monitoring, with improved accuracy, is critical to preventing overloads in high-density computing environments. The web GUI, accessed by a network connection or via the built in serial port, reports the input current (in Amps) of each power circuit for simple load balancing.



**INPUT OUTPUT**  
**POWER FEED A**

**OUTPUT INPUT**  
**POWER FEED B**

Model	Input Voltage	Amperage	Inputs	Outputs	Dimensions
CS-2HD2C131Z1	208-240V 50/60Hz	30A	(2) NEMA L6-30P Cord Set, 10ft (3.0m)	(2) NEMA L6-30R Cord Set, 3ft (.9m)	1.75 x 17.0 x 7.0 in. (44 x 432 x 178mm)
CS-2HDEK131Z1	230V 50/60Hz	32A	(2) IEC 60309 Cord Set, 10ft (3.0m)	(2) IEC 60309 Cord Set, 3ft (.9m)	1.75 x 17.0 x 7.0 in. (44 x 432 x 178mm)

## Additional Specifications

### Agency Approvals

- > US & Canada (cTUVus mark) to UL 60950-1:2003 and CAN/CSA 22.2 No. 60950-1-03
- > European Union (TUVGS mark) to EN 60950-1:2001
- > FCC Class A, Part 15
- > CE
- > EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A

### Accessories

- > Optional Temperature & Humidity Probe
  - EMTH-1-1 Temperature & Humidity Probe, 10 ft (3m)

### Communications and Security

- > 10/100 BaseT Ethernet
- > HTTP/HTTPS
- > SSLv3/TLSv1
- > SNMPv2
- > SSHv2
- > Telnet
- > LDAPS/LDAPv3
- > RADIUS
- > TACACS+
- > RS-232 (Serial)



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