

# Sentry Smart Fail-Safe Transfer Switch

## CS-2HF

### Key Features

- > **Fail-Safe:** Redundant power feeds pick up the entire load for both circuits if either power feed fails
- > **Input Current Monitor:** Power monitoring of the aggregate load on each power circuit (amps) remotely via the interface and locally on the enclosure.
- > **Authentication:** Username/password required for network administrators & user accounts. Multiple user accounts can be established with designated access rights.
- > **Web GUI:** Full configuration and control for managing user accounts and network settings through the built-in web interface
- > **Add and Expansion Module:** Connect the Smart Expansion CDU (CL) to a Master unit (CS) for power monitoring of separate power circuits from a single IP address.
- > **Power Distribution:** 208V-240V 30A, or 230V 32A power input feed options
- > **Environmental Monitoring:** Add temperature, humidity, water and intrusion monitoring with the EMCU-1-1B
- > **IP Access & Security:** Web interface, SSL, SSH, Telnet, SNMP, FTP, SNT, Syslog, LDAP, LDAPS, TACACS and RS-232 access
- > **SNMP Traps and Email Alerts:** Provide automated alerts for power and environmental conditions



### Smart Fail-Safe Transfer Switch

The Sentry Smart Fail-Safe Transfer Switch provides fail-over redundancy to single or dual-power supply servers and network devices. Exclusive to the Smart Fail-Safe is its ability to carry loads on the A circuit, B circuit or both and to monitor power by network or serial communication.

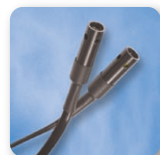
The "A" infeed routinely powers just the A-outlet, and the "B" infeed routinely powers just the B-outlet. However, if the "A" infeed goes down, the "B" infeed powers both outlets and the same if the "B" infeed goes down.

This "Fail-Safe" method has several advantages compared to a standard ATS because it does not prohibit load balancing between the two supplied circuits. A standard ATS contains two in-feeds, but runs all outlets from just one source, with the secondary source only being used once an outage occurs on the primary. The "Fail-Safe" method differs in that both circuits are routinely loaded, but only to half capacity. This results in less heat, less resistance, and consequently less of a voltage drop compared to the same load existing on just one source. Only when an outage occurs on one of the two sources will the entire load be applied to a single source.



### Input Current Monitoring

Exclusive Digital True RMS current monitoring is critical to preventing overloads in high-density computing environments. LED digital displays on the CDU reports the input current of each input feed.



### Temperature and Humidity

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



### Linking for Smart CDU (Expansion Modules)

The Smart CDU family has the capability to daisy chain units together. The Expansion Module provides the ability to link two power circuits under one IP address.

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CS-2HF2C222A3 CL-2HF2C222A3*	208-240 VAC 50/60Hz	30A	Two NEMA L6-30P Cord Set 10 ft (3 m)	(2) IEC 60320/C19	17.0 x 1.75 x 7.0 in. (432 x 44 x 178 mm)
CS-2HFEK222A3 CL-2HFEK222A3*	230 VAC 50/60Hz	32A	IEC 60309 Cord Set 10 ft (3 m)	(2) IEC 60320/C19	17.0 x 1.75 x 7.0 in. (432 x 44 x 178 mm)

\*CL part number refers to the expansion CDU

## Additional Features and 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

### Communications and Security

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

### Branch Circuit Protection

- > Compliant to UL 60950-1

### Warranty

- > 2 years

### Accessories

- > Optional Temperature & Humidity Probe
  - EMTH-1-1 Temperature & Humidity Probe, 10ft (3m)
- > Environmental Monitor
  - EMCU-1-1B allows up to (2) temperature & humidity probes, (1) water sensor, (4) dry contact closures, (1) analog-to-digital contact sensor. Includes (1) temperature/humidity probe with unit.
- > SPM (Sentry Power Manager) Appliance:
  - Monitor and Manage multiple Sentry CDU's
  - Monitor and Manage all alarm conditions
  - Reporting and Trending
  - Group or Cluster outlets for reboot and power information



Network, link, and environmental ports on the opposite side

### 1U SPM Appliance



### Expansion Module Model numbers

- > CL-2HF2C222A3
- > CL-2HFEK222A3



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