

The IntelliStrip PDU is a high specification Power Distribution Unit that supports remote monitoring of power status and environmental conditions.

Used with the IntelliData Systems Management software, IntelliStrip provides a fully featured integrated power monitoring, analysis and control system.



Features

- ▶ Designed to work as single strips, or in pairs for dual supply
- ▶ Retrofittable to existing cabinets from any manufacturer
- ▶ Left and right handed socket orientation for easy cable management
- ▶ Control and monitoring via control bus that minimises network impact
- ▶ Temperature and humidity measurement
- ▶ Power present sensor
- ▶ True RMS current measurement
- ▶ Door open sensor
- ▶ Expansion connector for additional sensor types and further control
- ▶ Fixings for all cabinet types
- ▶ 32A capability per PDU

EcoRange

EcoRange IntelliStrips have additional benefits:

- ▶ Qualifies for the Carbon Trust ECA scheme
- ▶ Measures Voltage, Power Factor, kW, kVA and kWhours

Options

- ▶ Each socket (or group of sockets) may be individually power cycled
- ▶ Each socket (or group of sockets) may be individually turned on/off
- ▶ Local display (ECO range only)
- ▶ Individual socket current monitoring
- ▶ From 2 to 32 sockets per strip
- ▶ UK13A, C19 or C13 IEC outlets, or a combination
- ▶ Integral branch protection with fuses or circuit breakers
- ▶ Additional monitoring sensors (smoke, water etc)

Intelligence

Each IntelliStrip PDU has on-board intelligence that monitors the strip status and communicates data to a master controller. The strips can capture and store instantaneous events such as current surges, or rapid door opening and closure independently of the master controller.

Security

The IntelliStrip is designed to be fail-safe. The logic system in each PDU is electrically isolated from the power circuits and can never endanger supply to mission critical servers or routers. The logic is powered externally from the IntelliPoller so that the strip remains powered and able to report a fault in the event of a power outage in the cabinet.

The optional re-boot system uses relay interlock and an independent relay power line that locks out accidental power-cycling of any outlet through corrupt software, abnormal power-up conditions etc. Access from the controlling IntelliServer is via a password protected, Blowfish encrypted link.

Communications

Communications between the PDUs and the master controller is via a multi-drop RS485 bus. This is a robust connection that is independent of the data room's network, minimising network traffic and port requirements. It allows strips to be connected and disconnected from the system freely.

The data cable also carries the logic power and the re-boot relay power making interconnection a simple, single connection.

Mounting

The IntelliStrip is supplied with mounting kits for cabinets from any of the major manufacturers.

Monitoring

- ▶ Temperature ($<\pm 1/2$ degree)
- ▶ Humidity ($<\pm 5\%$)
- ▶ Power measurement ($<\pm 2\%$)
- ▶ Power failure
- ▶ Door closure

