Switched & Metered Power Distribution Units

Size matters! No 19“ rack without a vertical IP Power Distribution Unit

new

Expert Powe Control 87 Series
With 16 or 24 switchable NEMA outputs, it's the perfect control and monitoring center for 19-inch racks

3 Key Benefits

More Safety

The vertical power strip has **16 and 24 load outlets** (NEMA5-15 or NEMA 5-20). This allows connected devices to be **switched off and on again** in the event of a fault. Thanks to integrated watchdogs, frozen devices can even be **restarted fully automatically**. In addition, the operator receives **warning messages** when fault currents occur. This enables **preventive maintenance measures** to be taken even before downtime occurs.

More Sustainability

The new IP power solutions can effectively reduce the installation's **energy consumption and electricity costs**: **Collective switching off** of several power consumers, especially with **programmed switching routines**, help to ensure sustainable operation of the infrastructure. **Free drivers** of cooperating technology partners allows **quick and easy integration** into existing media controls and DCIM solutions.

More Control

Two integrated connections for compatible accessory sensors allow **monitoring of ambient temperature, humidity, air pressure** as well as **signal inputs (NO/NC)**. System-critical conditions are thus detected at an early stage. Defined threshold values also ensure that **event-based switching routines** can be initiated and **alarm messages** sent. Thanks to **hot-pluggable sensors**, commissioning is done in no time at all.

Support of well-known technology manufacturers:

CRESTRON · domotz · Extron · Q-SYS · biamp. · AMX by HARMAN · RTI · utelogy

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made in Germany

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Switched & Metered Power Distribution Units

Expert Power Control 87

16 24

new

Intelligent switched PDU with 16 or 24 NEMA outlets and integrated monitoring functionality

Features

- Up to 24 load outputs individually switchable (12 A, 16 A)
- All load outputs individually switchable at the device, via HTTP(S), SNMP, ModbusTCP as well as via command line interface using Telnet, SSH and MQTT
- Switching state and switch-on delay (0...9999 seconds) adjustable for each power port after power failure
- Current peaks during simultaneous switching operations are prevented by an automatic latency of 1 second
- Programmable schedules and on/off sequences
- Input-side measurement of current, voltage, phase angle, power factor, frequency, active, apparent and reactive power
- 2 energy meters, one meter counts permanently, the other is resettable
- 16-/24-channel watchdog, each power port can be assigned its own watchdog (ICMP/TCP)
- Connection for plug-n-play sensors for environmental monitoring (temperature, humidity, air pressure, signal input)
- Load outputs can be switched when preset sensor thresholds are exceeded
- Integrated surge protection prevents damage of device and of connected consumers (L-N 10 kA), status retrievable over network
- Easy-to-read and configurable LED displays for revealing total current, IP address, sensor values and error messages
- Buzzer for audible alarm when sensor thresholds are exceeded
- Long-life high-Inrush relays prevent welding of relay contacts during inrush current peaks
- Easy and flexible configuration via web browser, Windows or Linux program
- Firmware update possible during operation via Ethernet
- IPv6-ready
- Generation of status messages and alarms (e-mail, syslog, SNMP traps, MQTT, SSH and Telnet)
- Encrypted e-mails (SSL, STARTTLS)
- Access protection through IP access control
- SNMPv1, v2c, v3 (Get/Traps)
- Encrypted communication via SSH and SSL (TLS 1.1, 1.2, 1.3)
- Password protected access
- Support of Radius, Modbus TCP and MQTT 3.1.1
- Configuration and control via Telnet
- Low power consumption
- Developed and produced in Germany

Application Scenarios

- Server racks & technical rooms
- AV and IT racks
- Lecture halls & universities
- Laboratory/healthcare facilities
- Super yachts
- Data centersn

Electrical Connections

- Mains connection:
  87-7410: IEC C20 (max. 15 A, 100-240 V)
  87-8510: IEC C20 (max. 16 A, 100-240 V)
- Load outputs:
  87-7410: 16x NEMA 5-15 (12 A)
  87-8510: 24x NEMA 5-20 (16 A)
- Ethernet connector RJ45 (10/100 Mbit/s)
- 2 Sensor connectors RJ45 for plug-n-play sensors (temperature, humidity, air pressure)

Technical Details

- Housing for vertical rack mounting (0 HU), including mounting bracktes (LxHxW)
  87-7410: 53.15 x 3.15 x 2.56 in
  87-8510: 66.93 x 3.15 x 2.56 in
- Sturdy housing made of eloxated aluminum
- Weight: **87-7410:** 102.3 oz., **87-8510**: 137.6 oz.
- Operating temperature: 32 to 122 °F
- Storage temperature: -4 to 158 °F
- Relative humidity: 0 - 95 % (non condensing) (non-condensing environment)

Bright LED displays revealing port status, metering and sensor values

Order code	Product	Feature	Power supply	Max. current
87-7410-66	Expert Power Control 87-7410	16 switchable outputs NEMA 5-15, mains connection IEC C20, 15 A, current metering per bank, surge protection (SPD type 3)	100-240 V	15 A
87-8510-77	Expert Power Control 87-8510	24 switchable outputs NEMA 5-20, mains connection IEC C20, 16 A, current metering per bank, surge protection (SPD type 3)	100-240 V	16 A
7205	Temp., Humidity Sensor 7205	Plug-n-play sensor, RJ45 connector, -6°F to +176°F, 0-90% humidity		
7209	Temp., Humidity, Signal Sensor 7209	Plug-n-play sensor, RJ45 connector, -6°F to +176°F, 0-90% humidity, 300-1100 hPa 2 passive signal inputs		

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