Size matters - small & smart PDUs for space saving installation

new

2-fold and 4-fold switched PDU with integrated metering and and monitoring functionality

Expert Power Control 1141-1
With 4 load outputs and current measurement, the compact PDU is installed in no time under table-tops and in media furniture

Expert Power Control 1121-1
The small IP power solution with 2 switchable load outputs is ideal for space-saving mounting behind displays and TVs

❯ Full Power Control

Up to 4 AV devices can be powered, controlled and switched individually - onsite or remote

❯ Seamless Software Integration

Easy and fast commissioning with free drivers for leading AV and IT control systems from e.g. Crestron, Extron, Domotz and Q-SYS

❯ Detailed Monitoring

Precise energy measurement and monito-ring of temperature and humidity through plug-n-play sensors

❯ Better and Faster AV Service

Remote reboots and automatic power cycling prevent costly downtime and allow better and faster customer service

❯ Reduced Costs and CO2 emmissions

Avoid unnecessary power consumption and minimize carbon footprint with programmable shutdown schedules

❯ Flexible Mounting

Compact design allows space-saving mounting behind displays, under tabletops and in AV furniture

❯ Increased Operational Safety

Integrated overvoltage protection and pro-active power monitoring ensure reliable and safe operation

Application scenarios

- Conference rooms
- Huddle spaces
- UC rooms
- Test labs
- Digital Signage
- Edge Computing

2-fold and 4-fold switched PDU with integrated metering and and monitoring functionality

Safety First
High inrush relays, surge protection & self-healing function

Expert Power Control 1141-1
Robust IP power distributor with 4 power ports

Expert Power Control 1121-1
Compact power distributor with 2 power ports

Switching function

- 2 or 4 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
- 2 or 4 channel watchdog, each power port can be assigned its own watchdog (ICMP/TCP)
- Load outputs can be switched when preset sensor thresholds are exceeded

Metering function

- Connection for plug-n-play sensors for environmental monitoring (temperature, humidity, air pressure)
- 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

Security

- Integrated overvoltage protection prevents damage of device and of connected consumers (L-N 10 kA), status retrievable over network
- Long-life high-Inrush relays prevent welding of relay contacts during inrush current peaks
- Generation of status messages and alarms (e-mail, syslog, SNMP traps MQTT, SSH, Telnet)
- Encrypted e-mails (SSL, STARTTLS)
- Access protection through IP access control
- SNMPv1, v2c, v3 (Get/Traps)

- Encrypted communication via SSL (TLS 1.1, 1.2, 1.3) and SSH
- Password protected access

Operation

- Easy and flexible configuration via web browser, Windows or Linux program
- Firmware update possible during operation via Ethernet
- Support of Radius, Modbus TCP and MQTT 3.1.1
- IPv6-ready
- Configuration and control via Telnet

Electrical Connections

- Mains connection IEC C14 (max. 10 A, 110-230 V)
- Load outputs:
  1121-1: 2x IEC C13
  1141-1: 4x IEC C13
- Ethernet connector RJ45 (10/100 Mbit/s)
- Sensor connector RJ45 for plug-n-play sensors (temperature, humidity, air pressure)

Technical details

- Dimensions (LxWxD, without mounting brackets):
  1121-1: 168 x 86 x 34 mm
  1141-1: 187 x 95 x 43 mm
- Weight: 1121-1: ca. 450 g / 1141-1: ca. 880 g
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)
- Low power consumption, typ. 2 W
- Developed and produced in Germany

Order code	Product	Feature	Power supply	Max. current
1121-1	Expert Power Control 1121-1	2 switchable outputs IEC C13, power metering, overvoltage protection	110-230 V	10 A
1141-1	Expert Power Control 1141-1	4 switchable outputs IEC C13, power metering, overvoltage protection	110-230 V	10 A
7205	Temp.,Humidity Sensor 7205	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity		
7206	Temp., Humidity, Air pressure Sensor 7206	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, 300-1100 hPa		
7209	Temp.,Humidity, Signal Input Sensor 7209	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, 2 passive signal inputs		