

Size matters - small & smart PDU for space saving installation

new

4-fold switched PDU with integrated metering and monitoring functionality



➤ Full control

Up to 4 AV devices can be powered and individually switched

➤ Optimal integration

Easy and fast commissioning with free drivers for leading AV control systems

➤ Detailed monitoring

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

➤ Better and faster Service

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

➤ More sustainability

Avoid unnecessary power consumption with programmable shutdown schedules

➤ Maximum flexibility

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

➤ Highest operational safety

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

Application scenarios

- Conference rooms
- Auditoriums
- Huddle spaces
- Digital Signage
- UC rooms
- Edge Computing

Expert Power Control 1141-1

new



4

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

Safety First
with high inrush relays,
surge protection and
self-healing function



Front and back of Expert Power Control 1141-1

Robust and compact IP power distributor with 4 power ports

Switching function

- 4 load outputs individually switchable at the device, via HTTP(S), SNMP, ModbusTCP as well as via command line interface using Telnet, SSH, MQTT or serial interface
- 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
- 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

- Access protection through IP access control
- SNMPv1, v2c, v3 (Get/Traps)
- 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

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

Electrical Connections

- Mains connection IEC C14 (max. 10 A, 230 V)
- Load outputs 4x IEC C13
- Ethernet connector RJ45 (10/100 Mbit/s)
- Serial interface RS232 (3-pole terminal clamp)
- Sensor connector RJ45 for plug-n-play sensors (temperature, humidity, air pressure)

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
- Buzzer for audible alarm when sensor thresholds are exceeded
- Generation of status messages and alarms (e-mail, syslog, SNMP traps, MQTT 3.1.1, SSH, Telnet)
- Encrypted e-mails (SSL, STARTTLS)
- Encrypted communication via SSL (TLS 1.1, 1.2, 1.3) and SSH

Technical details

- Dimensions (LxWxD, without mounting brackets): 187 x 95 x 43 mm
- Weight: 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
1141-1	Expert Power Control 1141-1	4 switchable outputs IEC C13, power metering, overvoltage protection	230 V	10 A
7205	Temp., Humidity Sensor 7205	Plug-n-play sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity		
7209	Temp., Humidity, Signal Sensor 7209	Plug-n-play sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 2 passive signal inputs		



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