Switchable IP Power Sockets for all needs: New **Expert Power Control Series**

From conference rooms to data centers: **Expert Power Control 8021, 8031 and 8041 Series**

The following data center scenario serves as an application example for new **Expert Power Control Series**: A standard 19 inch rack with 12 servers is deployed with customer critical applications running on the servers. The user's target: to implement a reliable power distribution as well as an intelligent device management regarding capacity and system monitoring - all at a reasonable cost-benefit ratio. With the new series of switchable IP power distributors, central objectives in the IT infrastructure can be achieved:

1. **Enhancement of energy efficiency**
2. **Metering of energy consumption on rack and server level in real time**
3. **Implementation of a reliable environment monitoring**
4. **Prevention of down-times and of system critical conditions by residual current monitoring**
5. **To ensure instant remote access in case of need**
6. **Support of commonly used authentication and encryption protocols**

### Triple Play of the new Expert Power Control Series

**1 Green Building**

With the new IP switching sockets, the power consumption of the installation can be effectively reduced: The collective switching off of consumers, even in standby mode, as well as the integrated energy meters help to ensure a sustainable operation of the infrastructure. In addition, the user receives warnings when fault currents occur. This allows preventive maintenance even before downtime.

**2 „Reboot is always good”**

The PDUs have 4, 8 or 12 load outlets on the rear (IEC C13 or safety socket). This allows connected devices to be switched off and on in the event of a fault. This is especially possible via media controls and DCIM solutions. Defined thresholds ensure that event-based switching can be initiated. Furthermore, the devices can be controlled on schedule due to integrated timer functions.

**3 Environment monitoring**

Two integrated sensor interfaces for optional available sensors enable to monitor environment temperature, humidity and air pressure. Due to real-time surveillance and early overload and threshold alarms, critical system conditions and down-times can be avoided. Thanks to plug-and-play sensors, startup operation with **Expert Power Control Series** is quickly done.

### Electrical Connections

- Power supply IEC C20, max. 16 A, 230 V
- Power Ports: 4, 8 or 12 IEC C13 (Lock), max. 10 A or 8 safety socket type F, max. 16 A
- Ethernet connector RJ45 (10/100 Mbit/s)
- Serial interface RS232 (Sub-D 9-pin)
- 2 RJ45 interfaces for optional sensors

### Technical Details

- Dimensions: 19 inch, 1 rack unit
- LxHxD: 43.9 x 4.4 x 17.8 cm (without brackets)
- Weight: ca. 2.2 kg
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

IPv6  SNMPv3  HTTPS  Telnet  SSL  Modbus TCP
Features

• Up to 12 Power Ports individually switchable directly on the device, via HTTPS, SNMP, command line tool and RS232 serial interface
• Status and Power-up delay (0...9999 seconds) adjustable individually for each Power Port after power blackout
• Latency time of 1 second prevents simultaneous power-up of multiple Power Ports
• Programmable timetables and turn-on/turn-off sequences
• 2 energy meters: one meter continuously, the other reselectable
• Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power
• Residual current metering type A
• A clearly visible LED display for total current, IP address, sensor data and error reports
• An individual watchdog (ICMP/TCP) can be assigned for each Power Port
• Integrated overvoltage protection (SPD) type 3 prevents damage of device and of connected consumers (L-N, L/N-PE), status retrievable over network

4-, 8- or 12-fold switched PDU for reduction of power consumption, for remote control and for environment monitoring

Residual current metering
Overvoltage protection type 3

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Product (in Q2/2019)</th>
<th>Rear connectors</th>
<th>Shared Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>8021-1</td>
<td>Expert Power Control 8021-1</td>
<td>4 x IEC C13</td>
<td>Operating voltage: 230 V, max.: 16 A</td>
</tr>
<tr>
<td>8031-1</td>
<td>Expert Power Control 8031-1</td>
<td>8 x IEC C13</td>
<td>Unit metered</td>
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<tr>
<td>8031-2</td>
<td>Expert Power Control 8031-2</td>
<td>8 x IEC C13</td>
<td>Residual current metering type A</td>
</tr>
<tr>
<td>8031-3</td>
<td>Expert Power Control 8031-3</td>
<td>8 x safety socket type F (DE)</td>
<td>Overvoltage protection (SPD) type 3</td>
</tr>
<tr>
<td>8041-1</td>
<td>Expert Power Control 8041-1</td>
<td>12 x IEC C13</td>
<td>2 sensor ports with RJ45 socket</td>
</tr>
<tr>
<td>8041-2</td>
<td>Expert Power Control 8041-2</td>
<td>12 x IEC C13</td>
<td>HTTPS, SSL, IPv6, SNMPv3, Telnet, Radius, Modbus TCP</td>
</tr>
</tbody>
</table>

Order Code | Product | Feature |
<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>7101</td>
<td>Temperature Sensor 7101</td>
<td>Cable sensor with splash-proof sensor head (IP64), RJ45 connector, -20°C to +80°C, cable ca. 2.3 m</td>
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<tr>
<td>7104</td>
<td>Temperature Sensor 7104</td>
<td>Cable sensor, RJ45 connector, -20°C to +80°C, cable ca. 2.3 m</td>
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<tr>
<td>7105</td>
<td>Temp./Humidity Sensor 7105</td>
<td>Cable sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m</td>
</tr>
<tr>
<td>7106</td>
<td>Temp./Humidity/Air pressure Sensor 7106</td>
<td>Cable sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 300-1100 hPa, cable ca. 2.3 m</td>
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<tr>
<td>0804</td>
<td>iEC Extension Cable 0804</td>
<td>Extension cable for IEC C13 to C14, length: 3 m</td>
</tr>
<tr>
<td>0807</td>
<td>Cable Holder 0807</td>
<td>13 fixation bridges for load cables at the rear side (not for 8031-3)</td>
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</table>

* Sensors also available with calibrated temperature range: 7104-2, 7105-2, 7106-2