

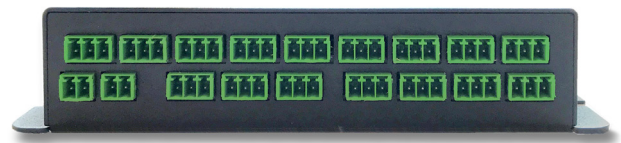
## Expert Net Control 2111 / 2191 Series

Monitoring system with 4 relay outputs and 12 passive signal inputs and GSM connectivity (2191)

### Features

- 4 switchable, potential-free relay outputs with change-over connectors (NO and NC), high switching voltage 36 V, 3 A
- Relays dispose of high contact reliability also at very small loads
- 12 passive inputs for monitoring NO and NC devices, e.g. door contacts, smoke detectors, leakage sensors etc.
- Each signal input includes a 12 V connector for supply of NO/NC devices
- 4-channel watchdog for monitoring connected consumers (ICMP/TCP)
- 4 interfaces for optional sensors for environmental monitoring (temperature, humidity and air pressure)
- Messages by e-mail, Syslog and SNMP traps depending on threshold values of sensor metering and signal inputs
- A clearly visible LED display for total current, IP address, sensor data and error reports
- LED display for status of power supply, inputs/outputs and GSM (2191)
- 2 inputs for redundant power supply (12 V DC) via 2 external **Power Supply Units 7903** (one included in delivery)
- For **2111-2** and **2191-2** additional power supply by Power-over-Ethernet (PoE) possible
- Comfortable configuration by web browser, Windows or Linux tool
- Firmware update via Ethernet during operation
- IPv6-ready
- HTTP/HTTPS, e-mail (SSL, STARTTLS), DHCP, Syslog
- SNMPv1, v2c, v3 (Get/Traps)
- TLS 1.0, 1.1, 1.2
- Radius and Modbus TCP protocol supported
- Configuration and control over Telnet
- Access control via IP Access Control List
- Android and iOS app Gude Control allows access from anywhere
- Low power consumption
- Sturdy metal housing of significant manufacture
- Developed and manufactured in Germany

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|---|--|
| <input checked="" type="checkbox"/> IPv6  | <input checked="" type="checkbox"/> SNMPv3     |
| <input checked="" type="checkbox"/> HTTPS | <input checked="" type="checkbox"/> Telnet     |
| <input checked="" type="checkbox"/> SSL   | <input checked="" type="checkbox"/> Modbus TCP |



Terminal connectors of Expert Net Control 2111 / 2191 Series



### Electrical Connections

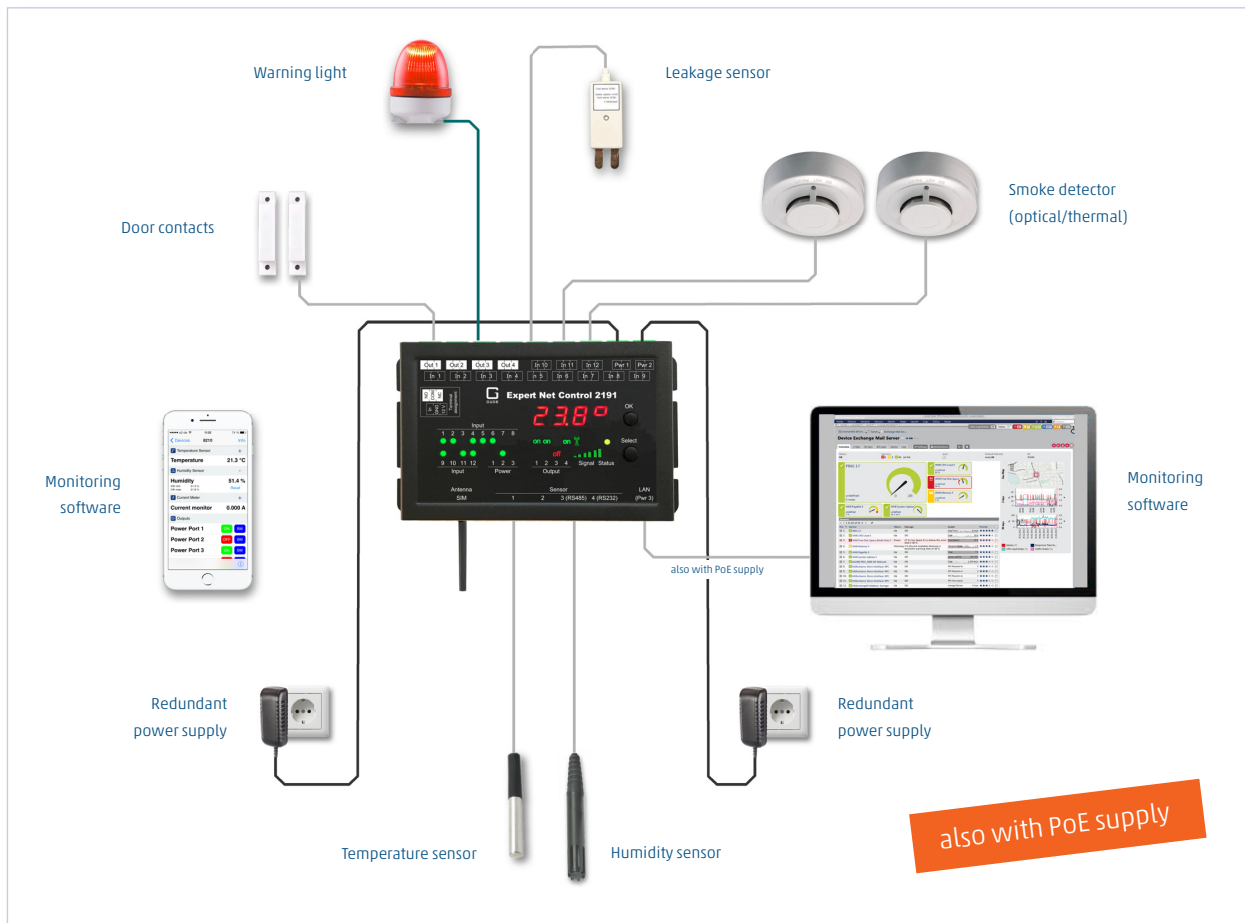
- 2 sockets for external power supply units (PTR multiconnector, 2-fold)
- 4 switchable outputs (PTR multiconnector, 3-fold)
- 12 passive signal inputs (PTR multiconnector, 3-fold)
- 4 sensor connectors RJ45 for optional sensors (temperature, humidity and air pressure) or serial interface (RS232, RS485)
- Ethernet connector RJ45 (10/100 Mbit/s), for **2111-2** and **2191-2** as additional power supply by Power-over-Ethernet (PoE)
- Connector for GSM antenna, **GSM Rod Antenna 0560** included in delivery (**2191**)
- Slot for SIM card (**2191**)

### Technical Details

- Powdered steel case, LxHxD: 139 x 91 x 35 mm
- Comfortable DIN rail mounting and freely selectable device orientation by optional **Mounting Clip 0860**
- Weight: ca. 440 g
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

### GSM Features of Expert Power Control 2191 Series

- Quadband GSM module
- Control via voicecall, SMS and Datacall
- GSM user access for all ports configurable
- FreeCall: Predefined action upon toll-free incoming call from a specific number
- GSM antenna included in delivery
- For pre-paid and post-paid SIM cards (SIM card not included)



Application scenario of Expert Net Control 2191 Series

Order Code	Product	Feature	Power supply
2111-1	Expert Net Control 2111-1	4 switchable outputs, 12 passive signal inputs, 4 sensor ports	Ext. power supply unit 12 V
2111-2	Expert Net Control 2111-2	4 switchable outputs, 12 passive signal inputs, 4 sensor ports	Ext. power supply unit 12 V or Power-over-Ethernet
2191-1	Expert Net Control 2191-1	4 switchable outputs, 12 passive signal inputs, 4 sensor ports, GSM module, GSM antenna enclosed in delivery	Ext. power supply unit 12 V
2191-2	Expert Net Control 2191-2	4 switchable outputs, 12 passive signal inputs, 4 sensor ports, GSM module, GSM antenna enclosed in delivery	Ext. power supply unit 12 V or Power-over-Ethernet
7101	Temperature Sensor 7101	Cable sensor with splash-proof sensor head (IP64), RJ45 connector, -20°C to +80°C	
7104 *	Temperature Sensor 7104	Cable sensor, RJ45 connector, -20°C to +80°C, cable ca. 2.3 m	
7105 *	Temp., Humidity Sensor 7105	Cable sensor, RJ45 connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m	
7106 *	Temp., Humidity, Air pressure Sensor 7106	Cable sensor, RJ45 connector, 20°C to +80°C, 0-90% humidity, 300-1100 hPa, cable ca. 2.3 m	
* Sensors also available with calibrated temperature range: 7104-2, 7105-2, 7106-2			
7201	Temperature Sensor 7201	Box case with RJ45 socket, -20°C to +80°C	
7202	Temp., Humidity Sensor 7202	Box case with RJ45 socket, -20°C to +80°C, 0-90% humidity	
7311	Optical Smoke Detector 7311	Overhead installation (d=100 mm), screw terminal NO or NC	
7312	Thermal Smoke Detector 7312	Overhead installation (d=100 mm), screw terminal NO or NC	
7313	Leakage Point Sensor 7313	13 mm two-tined, detects flooding, 4-core wire (2.5 m)	
7903	Power Supply Unit 7903	12 V DC, 1 A, 2-fold PTR multiconnector, included in delivery	
7940	Comb. Signaling Device 7940	Optical/acoustic alarm device, 100 dB sound pressure, 3-core connection cable (0.4 m)	
0860	DIN Rail Mounting Clip 0860	Plastic clip for easy installation on DIN rails	
0520	GSM Rod Antenna 0520	Magnetic mount rod antenna with cable and SMA plug, cable 5.5 m	
0560	GSM Rod Antenna 0560	Rod antenna with SMA plug (included in delivery)	