

Expert Net Control 2312-1



3

Remote I/O System with 3 switchable relay outputs and energy metering for DIN-rail mounting



Features

- 3 switchable, potential-free relay outputs, switching voltage 230 V AC 16 A
- Metering of energy, current, power factor, phase angle, frequency, voltage and active / apparent / reactive power per output
- 2 energy meters per output, one meter continuously, the other resettable
- A clearly visible LED display for total current, IP address, sensor data and error reports
- All relay outputs individually switchable directly on the device, via HTTP, command line tool and RS232 serial interface
- Status and Power-up delay (0...9999 seconds) adjustable individually for each output after power blackout
- Simultaneous power-up of multiple Power Ports prevented by latency time of 1 second
- Programmable turn-on/turn-off sequence
- 3-channel watchdog to monitor connected consumers (ICMP/TCP)
- Bicoloured LEDs on front panel display status information of relay outputs
- Interface for optional sensor for environmental monitoring (temperature and humidity)
- Power supply via external **DIN rail unit 7902** (not included in delivery)
- Comfortable configuration by web browser, Windows or Linux tool

- Firmware update via Ethernet during operation
- HTTP 1.1, e-mail, DHCP, SNMPv1 (Traps), SNMPv2c (Traps), Syslog
- Access control via IP Access Control List
- Access control via optional HTTP password
- Android and iOS app *Gude Control* allows access from anywhere
- Low power consumption, max. 3 W
- Developed and manufactured in Germany

Electrical Connections

- Terminal clamps for power supply with 12-24 V AC/DC voltage
- 3 switchable outputs (terminal clamps for phases)
- Ethernet connector RJ45 (10/100 Mbit/s)
- Mini-DIN connector for optional sensor or serial interface (RS232)

Technical Details

- LxHxD: 10.5 x 7 x 9 cm
- Weight: ca. 280 g
- Operating temperature: 0-50 °C
- Storage temperature: -20 - 70 °C
- Relative humidity: 0 - 95 % (non-condensing environment)

Highlights at a glance

- ▶ 3 switchable relay outputs with LED display
- ▶ 3-phase metering of electrical dimensions

Order code	Product	Feature	Power supply
2312-1	Expert Net Control 2312-1	3 switchable outputs, 1 sensor or RS232 interface, 3-phase metering of electrical dimensions	External power supply unit 12-24 V AC/DC
7001	Temperature Sensor 7001	Cable sensor with splash-proof sensor head (IP64), Mini-DIN connector, -20°C to +80°C, cable ca. 2.3 m	
7002	Temp., Humidity Sensor 7002	Cable sensor, Mini-DIN connector, -20°C to +80°C, 0-90% humidity, cable ca. 2.3 m	
7902	DIN Rail Power Supply Unit 7902	Power supply unit for DIN rail, 230 V AC / 12 VDC 1250 mA (not included in delivery)	
7990	RS232 Adapter Cable 7990	Connector cable for RS232 to mini-DIN 6, length ca. 2.3 m	