

Q.raxx D105

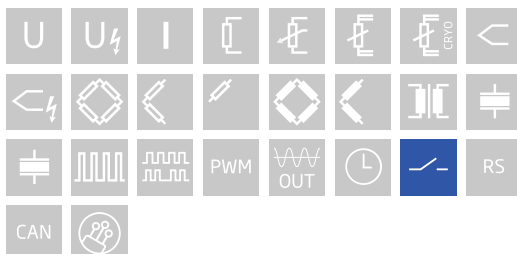
Digital Output Module

Q.raxx is the ideal 19" rackmount DAQ solution for applications that require high channel density. Q.raxx DAQ systems can utilize an integrated, high-performance controller for communication, control, and data logging purposes. With a controller, multiple Q.raxx systems can be synchronized to each other allowing for efficient DAQ distribution with low jitter and gradual expansion up to thousands of channels.

- **High Density**
up to 13 I/O modules per Q.raxx 3U chassis with up to 16 channels per I/O module
- **User Friendly**
front panel indicators for module status, power, and input range error
- **Fully Customizable**
multiple front panel termination options available
- **Maximum Flexibility**
parallel communication available in TCP/IP, CAN, PROFIBUS, Modbus, and EtherCAT

Key Features

- **16 Digital outputs**
status, single bit or bitset
- **Fast response time**
up to 10 μ s per channel
- **High load capacity**
30 VDC / 500 mA, short circuit proof
- **3-Way galvanic isolation**
500 VDC group to group, group to power supply, and group to bus



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Digital Output Module

Technical Data

Digital Output

| | | | |
|----------------------|---|-----------------|------------------|
| Channels | 16 | | |
| Mode(s) of operation | status | | |
| Contact | open drain p-channel MOSFET | | |
| Output voltage | 12 to 30 VDC (external supply required) | | |
| Load capacity | 30 VDC / 500 mA (ohmic load) | | |
| Response time | 10 µs (>0.5 A) | 100 µs (>0.1 A) | 1000 µs (<0.1 A) |
| Isolation voltage | 500 VDC, group to group, group to power supply, group to bus ¹ | | |

¹ noise pulses up to 1000 VDC, continuous up to 250 VDC

Communication Interface

| | |
|---------------------|--|
| Protocols | proprietary Localbus (115200 bps to 24 Mbps, latency <100 ns) ASCII (19200 bps to 115200 bps) Modbus RTU Profibus-DP (19200 bps to 12 Mbps) (special Firmware required) |
| Data format | 8E1 |
| Electrical standard | ANSI/TIA/EIA-485-A, 2-wire |

Input Power

| | |
|-------------------------|--|
| Input voltage | 10 to 30 VDC, overvoltage and overcurrent protection |
| Power consumption | 2 W (approx.) |
| Input voltage influence | <0.001 % / V |

Environmental Specifications

| | |
|-------------------------------------|---------------------------------------|
| Electromagnetic compatibility (EMC) | according to IEC 61000-4 and EN 55011 |
| Operating temperature | -20°C to +60°C |
| Storage temperature | -40°C to +85°C |
| Relative humidity | 5 - 95 % at 50°C (non-condensing) |

Remarks

Validity of all listed specifications are subject to a warm-up period of at least 45 minutes

Specifications subject to change without notice

Mechanical information

| | |
|--------------------------|-------------------|
| Material | Aluminum |
| Measurements (W x H x D) | 30 x 128 x 118 mm |
| Weight | approx. 100 g |

Ordering Information

| | |
|----------------|--------|
| Article number | 213624 |
|----------------|--------|

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Digital Output Module

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