

Q.raxx XL D105

Digital Output Module

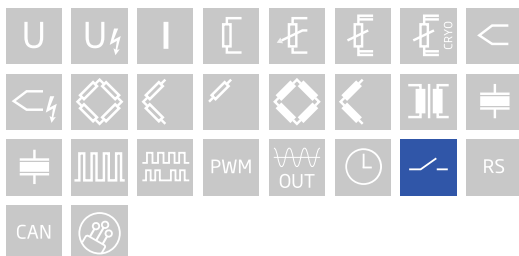
Q.raxx XL is a new addition to the Q.series product family - the ideal 19" rackmount DAQ solution for applications that require high channel density and custom sensor terminations. Q.raxx XL DAQ systems can utilize an integrated, high-performance controller for communication, control, and data logging purposes. With a controller, multiple Q.raxx XL 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
- Gantner's Quality Standard
integrated filtering, galvanic isolation & signal/sensor conditioning per channel



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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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 Localbus

Protocols	proprietary Localbus (115200 bps to 48 Mbps, latency <100 ns) ASCII (19200 bps to 115200 bps) Modbus RTU
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)	30x 128 x 120mm
Weight	approx. 200 g

Ordering Information

Article number	533019
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