Q.bloxx XL D105

## Digital Output Module

Gantner instruments

Q.bloxx XL is a new addition to the Q.series product family - the ideal DAQ solution for widely distributed installations that require higher performance and custom sensor terminations. Q.bloxx XL products are packaged in modular, DIN Rail mountable enclosures that easily snap together for system expansion. Flexibility in distribution allows for highly synchronized data that is less prone to noise due to shorter sensor cable runs to the subject.

- RS485 fieldbus interface up to 48 Mbps: LocalBus, up to 115.2 kbps: Modbus-RTU, ASCII
- Connectable to Controller Q.station X
- Electromagnetic Compatibility according to EN61000-4 and EN55011
- Power supply 10 ... 30 VDC
- DIN rail mounting (EN60715)

Key Features

- **16 Digital outputs**
  status, single bit or bitset
- **Fast response time**
  up to 10 µs 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
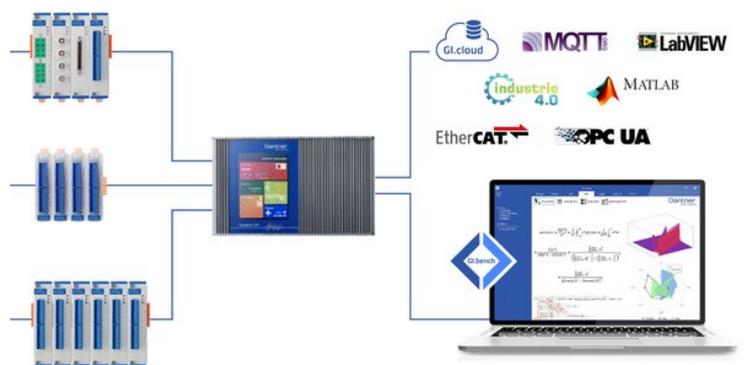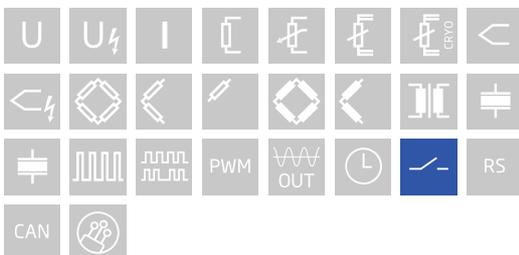
Q.bloxx XL D105

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 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 and ABS
Measurements (W x H x D)	30x 145 x 135mm
Weight	approx. 500 g

Ordering Information

Article number	520419

Q.bloxx XL D105

Digital Output Module

Gantner Instruments

Austria | Germany | France | Sweden | India | USA | China | Singapore

Montafonerstraße 4 · A-6780 Schruns · T +43 55 56 · 77 463-0