

# Q.bloxx XL D105

## Digital Output Module

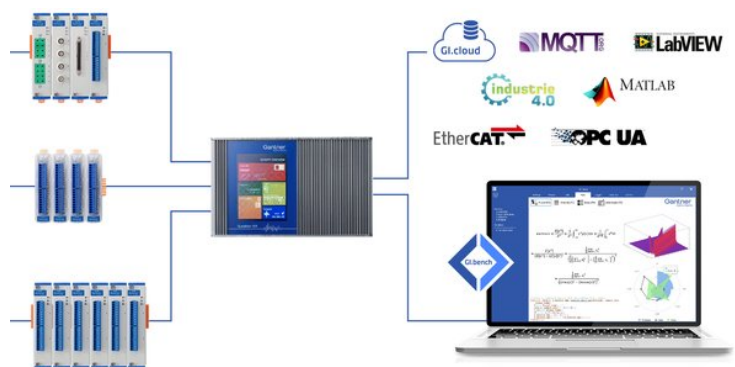
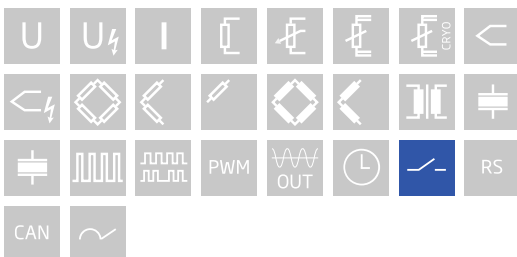
Q.bloxx XL is a new addition to the Q.series product family - the ideal DAQ solution for widely distributed installations that require higher performance and custom sensor terminations. Q.bloxx XL products are packaged in modular, DIN Rail mountable enclosures that easily snap together for system expansion. 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
- Electromagnetic Compatibility according to EN61000-4 and EN55011
- Connectable to Controller Q.station X
- 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  
Group to group, group to power supply, and group to bus

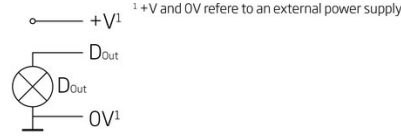
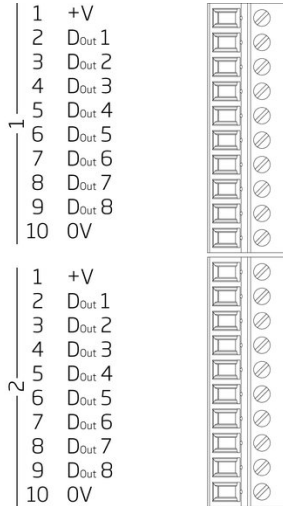


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## Digital Output Module

### Technical Data

#### Terminal assignment 10pole screw



#### 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	> 0.5 A	> 0.1 A	< 0.1 A
	10 $\mu$ s	100 $\mu$ s	1000 $\mu$ s
Isolation voltage	500 VDC, group to group, group to power supply, group to bus <sup>1</sup>		

<sup>1</sup> 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

#### Power Supply

Input voltage	10 to 30 VDC, overvoltage and overcurrent protection
Power consumption	Approx. 2 W
Input voltage influence	< 0.001 % / V

#### Environmental

Operating temperature	-20 °C to +60 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	5 % to 95 % at 50 °C, non-condensing

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### Remarks

Are subject to a warm-up period of at least 45 minutes

In a controlled electromagnetic environment<sup>1</sup>

With configuration: Low-pass 10Hz<sup>2</sup>

Specifications subject to change without notice

<sup>1</sup> according to IEC 61326-1:2020

<sup>2</sup> unless otherwise stated

### Mechanical information

Material	Aluminium and ABS
Measurements (W x H x D)	30 x 145 x 135mm
Weight	approx. 500 g
Protection class	IP20



### Ordering Information

Article number	520419
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