

Q.brixx XL D105

Digital Output Module

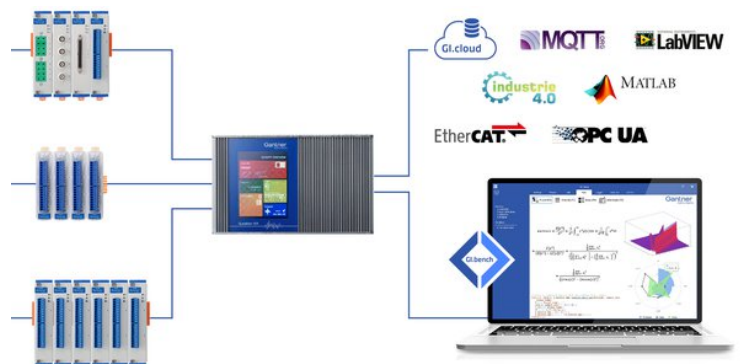
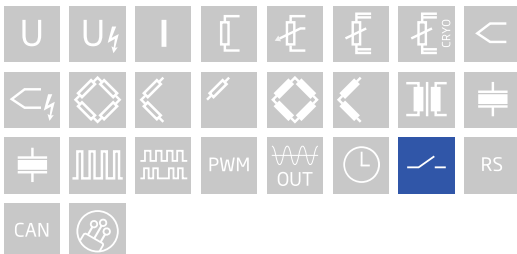
Q.brixx XL is a new addition to the Q.series product family - the ideal DAQ solution for on-the-go applications requiring higher performance in potentially harsh environments. Q.brixx XL DAQ systems consist of up to 16 measurement modules and an integrated, high-performance controller for communication, control, and data logging purposes, all within a robust aluminum housing capable of withstanding severe shock and vibration without sacrificing performance.

- High density and flexibility with 16 modules in one system in any constellation
- Electromagnetic Compatibility according to EN61000-4 and EN55011
- Connectable to Controller Q.station
- Power supply 10 ... 30 VDC



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 145 x 135mm |
| Weight | approx. 500 g |

Ordering Information

| | |
|----------------|--------|
| Article number | 526930 |
|----------------|--------|



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