Gantner

Q.bloxx D105



Digital Output Module



The Q.series has been designed for the demanding measurements found in today's industrial measuring and testing environments. Applications range from single, stand-alone solutions to networked, multi-channel systems in real-world areas such as component testing, engine testing, process performance testing, materials testing and structural monitoring.

The range and flexibility of the modules allows for an optimized solution for each and every measurement and control point:

- Dynamic signal acquisition up to 100 kHz per channel
- inputs and outputs for all types of signals and sensors
- Galvanic isolation (up to 1200V) of inputs and outputs
- Multi-channel, High-density packaging
- Intelligent signal conditioning on every channel.

All modules connect to a Q.series test controller (Q.gate, Q.pac, or Q.station) for synchronization and buffering, and data exchange between the test controller and automation system is handled via Ethernet TCP/IP, EtherCAT, Profibus-DP, CANopen, or through additional industrial fieldbus standards.

Key Features:

- 16 digital outputs state, single or bit set, host controlled
- High possible load
 30 VDC / 500 mA short circuit proof
- Short reaction time
 10 µs up to 1 ms per input
- RS485 fieldbus-interface up to 48 Mbps: LocalBus up to 115.2 kbps: Modbus-RTU, ASCII
- Connectable to any Test Controller
 e.g. Q.station, Q.gate or Q.pac
- Galvanic isolation of I/O-signals (2 groups x 8 inputs), to power supply and to interface Isolation voltage 500 VDC
- Electromagnetic compatibility according EN 61000-4 and EN 55011
- Power supply 10...30 VDC
- DIN rail mounting (EN 60715)



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Digital Outputs			
Number	16		
Contact	open drain p-channel MOSFET (short circuit proof)		
Output voltage	10 V up to 30 V, external supply required		
Load	30 VDC/500 mA (ohmic Load)		
Isolation voltage	500 VDC terminal 1/terminal 2 and against power supply and interface ¹		
Function			
State			
Reaction time	>0,5 A	>0,1 A	<0,1 A
(depending on load)	10 µs	100 µs	1000 µs
16-fold Bit-Set	Specification such as simple state-output, but the binary coded information of 16 outputs can be transmitted as a single variable.		

10 up to 30 VDC, overvoltage and overload protection		
approx. 2 W		
<0.001 %/V		
-20°C up to +60°C		
-40°C up to +85°C		
5 % up to 95 % at 50°C, non condensing		
RS-485, 2-wire		
8e1		
Local-Bus: 115200 bps up to 48 Mbps		
Modbus-RTU, ASCII: 19200 bps up to 115200 bps		
Aluminum and ABS		
(27 x 120 x 105) mm		
approx. 200 g		
DIN EN-rail		

¹ Noise pulses up to 1000 VDC, permanent up to 250 VDC

Valid from July 2015. Specification subject to change without notice gantner-q.bloxx-d105.pdf (Version 0616)

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