



## Q Series - Q.bloxx D105 Digital Output Module

**Gantner**  
instruments



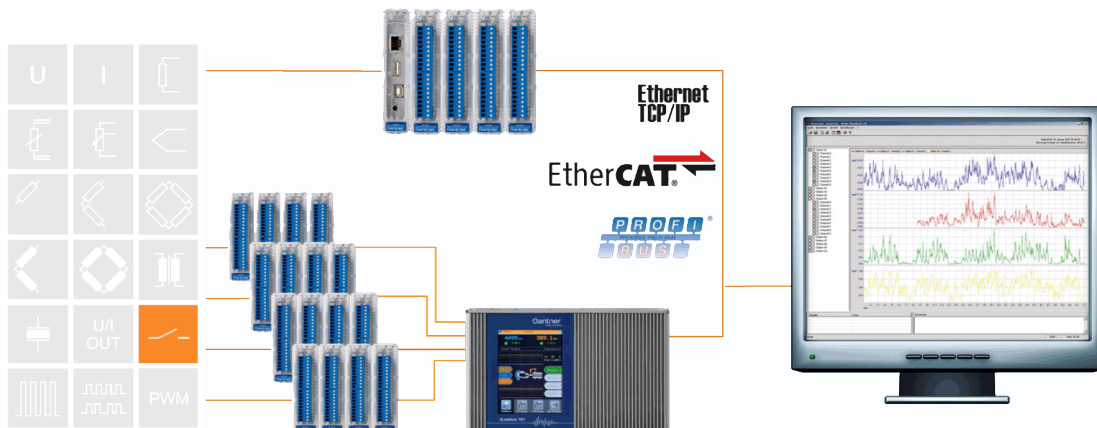
### Most important features:

- **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)**

The Q-series has been designed for demanding measurements found in today's most industrial measuring and testing environments. The range of applications starts from single stand-alone solutions up to networked multi-channel applications in the field of component testing, engine testing, process performance testing and structural monitoring.

The range and flexibility of the modules allows an optimized solution for each single task: Dynamic signal acquisition up to 100 kHz, inputs and outputs for all types of signals, galvanic isolation of inputs and outputs, multi-channel solutions, high density packaging and intelligent signal conditioning.

Data exchange between Test Controller and automation level is communicated via Ethernet TCP/IP or fieldbus systems like EtherCAT or Profibus-DP and additional Ethernet-based industrial standards



# Specifications

<b>Digital Inputs</b>			
Number	16		
Contact	open drain p-channel MOSFET (short circuit proof)		
Load	30 VDC/500 mA (ohmic Load)		
Isolation voltage	500 VDC group/group and against power supply and interface <sup>1</sup>		
<b>Function</b>			
<b>State</b>			
Reaction time (depending on load)	>0,5 A	>0,1 A	<0,1 A
	10 µs	100 µs	1000 µs
16-fold Bit-Set	specification such as simple state-output, but the binary coded information of 16 inputs can be transmitted as a single variable.		
<b>Power Supply</b>			
Power supply	10 up to 30 VDC, overvoltage and overload protection		
Power consumption	approx. 2 W		
Influence of the voltage	<0.001 %/V		
<b>Environmental</b>			
Operating temperature	-20°C up to +60°C		
Storage temperature	-40°C up to +85°C		
Relative humidity	5 % up to 95 % at 50°C, non condensing		
<b>Communication Interface</b>			
Standard	RS-485, 2-wire		
Data format	8e1		
Protocols	Local-Bus: 115200 bps up to 48 Mbps		
	Modbus-RTU, ASCII: 19200 bps up to 115200 bps		
Connectable devices	max. 32		
<b>Mechanical</b>			
Case	Aluminum and ABS		
Dimensions (W x H x D)	27 x 120 x 105 mm		
Weight	approx. 200 g		
Mounting	DIN EN-rail		

<sup>1</sup>Noise pulses up to 1000 VDC, permanent up to 250 VDC

Valid from March 2012. Specification subject to change without notice