Q.bloxx D105

Digital Output Module

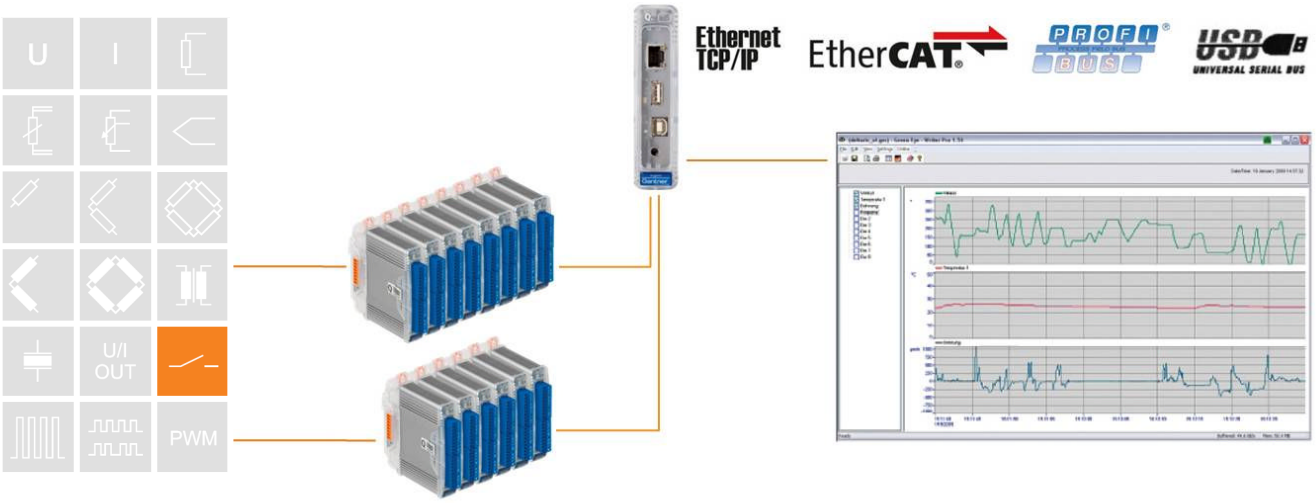
The Q.series has been designed for demanding measurements found in todays most industrial measuring and testing environments. The range of applications starts from single stand-alone solutions up to networked multi-channel applications in the field of component testing, engine testing, process performance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

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.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 50022)**



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Digital Output Module

Digital Inputs			
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[1]		
Function			
State			
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.		

Power Supply	
Power supply	10 up to 30 VDC, overvoltage and overload protection
Power consumption	approx. 2 W
Influence of the voltage	<0.001 %/V
Environmental	
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
Communication Interface	
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
Mechanical	
Case	Aluminum and ABS
Dimensions (W x H x D)	(27 x 120 x 105) mm
Weight	approx. 200 g
Mounting	DIN EN-rail

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

Gültig ab January 2011. Technische Änderungen vorbehalten
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