



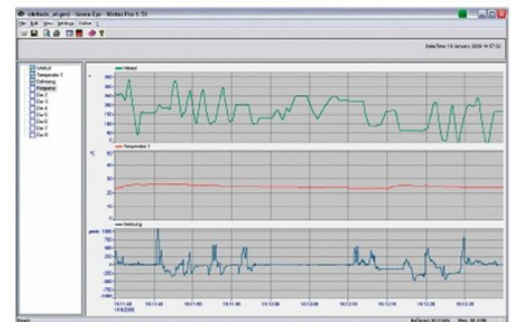
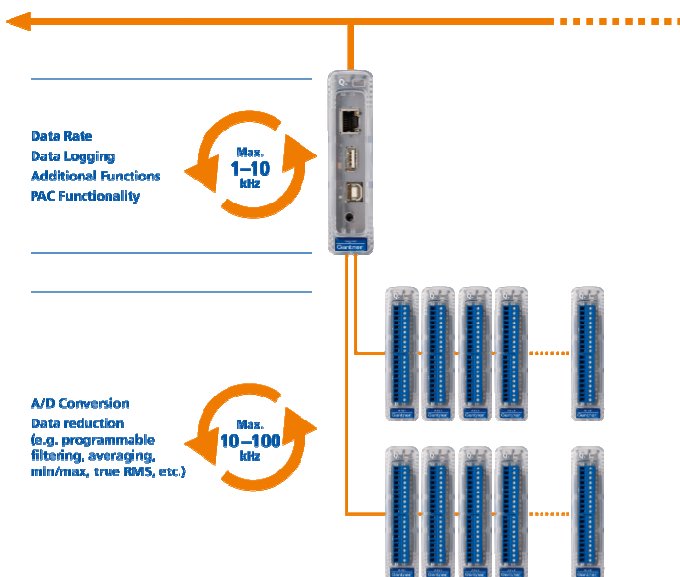
The Q.series has been designed for demanding measurements found in today's most industrial measuring and testing environments. The range of applications starts from single stand-alone solutions up to networked multi-channel applications in the field of component testing, engine testing, process performance 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, in/outputs for all types of signals, galvanic isolation of in/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, Profibus-DP or CANopen and additional Ethernet-based industrial standards.

Most important features:

- Connection of up to 32 Q.bloxx modules via 2 UARTS, Baud rate up to 24 MBaud each UART
- Recording of up to 256 variables real format 4 Byte
- Synchronization and time stamp of measurement values
- Ethernet interface for configuration and data output FTP, TCP/IP, UDP
- FTP Server and FTP Client functionality configurable function
- Optional fieldbus interfaces Profibus-DP, 12 Mbps EtherCAT acc. specification ETG
- High data rate over Ethernet 128 real variables with 1 kHz (block transfer) 16 real variables with 10 kHz (block transfer) 64 real variables with 300 Hz (online)
- Data buffer memory 12 MByte Data buffer at block transfer of measurements
- Mathematic, control and combination features
- Galvanic isolation of power supply and interfaces
- Electromagnetic Compatibility according EN 61000-4 and EN 55011
- Power supply 10...30 VDC
- DIN rail mounting (EN 50022)





Host Interface Ethernet	
Protocols	TCP/IP, UDP, PING, ASCII, Modbus TCP/IP
Services	DHCP, FTP-Server, FTP-Client, e-Mail-Send-Client (SMTP)
Baud rate	10/100 Mbps
Number of simult. Clients	10
Isolation voltage	500 V
Host Interface EtherCAT (Q.gate EC only)	
Standard	Ethernet
Number of channels	256 Byte data
Baud rate	100 Mbps
Cycle time	≥100 µs
Isolation voltage	500 V
Host Interface Profibus-DP (Q.gate DP only)	
Standard	RS 485
Data format	8E1
Baud rate	9.6 kbps up to 12 Mbps
Connectable devices	max. 32 without-, max. 127 with repeater
Isolation voltage	500 V
Host Interface USB	
Version	USB 2.0
Data rate	typ. 100 kByte/s
Devices	Data storage, formatted with FAT or FAT 32
Slave Interfaces RS 485	
Number of interfaces	2
Standard	RS 485
Data format	8E1
Protocol	Local Bus
Baud rate	9,6 kbps up to 24 Mbps
Connectable devices	max. 16 modules at one line
Isolation voltage	500 V
Operating System Independent	
Standardized interface	Ethernet (FTP/Berkeley-Socket)



Power Supply	
Power supply	10 up to 30 VDC, over voltage 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
Mechanical	
Case	Aluminum and ABS
Dimensions (W x H x D)	(27 x 120 x 125) mm
Weight	approx. 250 g
Mounting	DIN EN-rail



Valid from July 3rd 2009. Specification subject to change without notice
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