

Advanced Test Equipment Rentals > www.atecorp.com 800-404-ATEC (2832)

Gantner

Q.brixx gate



The Q.brixx series takes the performance of the Q.bloxx modules and delivers them in an integrated, rugged, scalable, and portable form factor. More than a dozen I/O modules types are available allowing you to 'mix and match' measurement features with your application requirements. Each Q.brixx module is individually housed in a rugged aluminum housing that handles data acquisition (up to 100 kHz per channel), channel-tochannel isolation (up to 1200 VDC), sensor conditioning, filtering, linearization, and conversion to engineering units - all at the I/O measurement level. The integrated Q.gate test controller handles the data synchronization, buffering, time stamping, and communication to the automation system or PC over Ethernet (TCP, UDP, FTP Modbus, etc.). The overall result is a portable measurement system that's up to the test.

Base Unit with Test Controller

Key Features:

- Q.brixx base unit consists of side handles, Test Controller Q.brixx gate and power supply unit, ready for 16 measurement modules
- Flexibility at high density up to 16 modules in one system with a individual compilation, various input plugs available
- Robust and reliable stable and compact aluminum housing, easy to carry electromagnetic compatibility according EN 61000-4 and EN 55011 Temperature range -20 up to +60°C power supply 10 up to 30 VDC
- Synchronization and time stamp of measurement values IRIG based master slave principle on RS485 standard DCF77, AFNOR etc, GPS time and position data SNTP over Ethernet
- Ethernet interface for configuration and data output FTP, TCP/IP, UDP
- FTP Server and FTP Client functionality configurable function
- 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 16 MByte
 Data buffer at block transfer of measurements, different logger possibilities, extendable by USB device
- PAC functionality

Sequences, data logger, PID-controller, transfer functions, mathematic, numeric, Boolean combinations, functions generator



Gantner Instruments Incorporated 9835 Carroll Centre Road, Suite 100 San Diego, CA 92126 USA



www.gantnerinstruments.com
 Toll Free: (877) 725-6997 (877 QBLOXXS)
 Direct: (858) 537-2060

info@gantnerinstruments.com
 Toll Free Fax: (800) 303-9381
 Direct Fax: (858) 537-2064



Q.brixx gate

Gantner

Base Unit with Test Controller

Heat Interface Ethernet	
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
Data rate	max. 800 kByte/s
Number of simult. Clients	10
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
Data Memory	
RAM	16 MByte (optional 90 MByte), cycle buffer
Flash	128 MByte
Operating System Independent	
Standardized interface	Ethernet (FTP/Berkeley-Socket)
Synchronization of a Multi Test C	ontroller System
Interface	RS485 Standard
Mode	Master Slave principle, IRIG standard
	DCF77, AFNOR etc, GPS over IRIG standard
	GPS NMEA over RS232
	SNTP over Ethernet
Power Supply	
Power supply	10 up to 30 VDC, over voltage and overload protection
	external power supply unit 115 VAC/230 VAC included
Power consumption	base unit. 3 W, additionally 2 W each module
Plug Options of the Modules	
Standard	pluggable screwing terminals
Option	multifunctional Inputs: DSub 9
	voltage inputs and outputs: BNC
	voltage inputs and outputs: BNC thermocouples: TCK

Gantner Instruments Incorporated 9835 Carroll Centre Road, Suite 100 San Diego, CA 92126 USA

www.gantnerinstruments.com
 Toll Free: (877) 725-6997 (877 QBLOXXS)
 Direct: (858) 537-2060

info@gantnerinstruments.com
 Toll Free Fax: (800) 303-9381
 Direct Fax: (858) 537-2064



Q.brixx gate



Base Unit with Test Controller

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
Dimensions base unit (W x H x D)	(105 x 125 x 155) mm
Width of one module	30 mm
Mounting	desk top or wall mounting, all connectors located on unit front
PAC Functionality	
Cycle time	≥1 ms
Processing	cyclic or synchronized with data acquisition



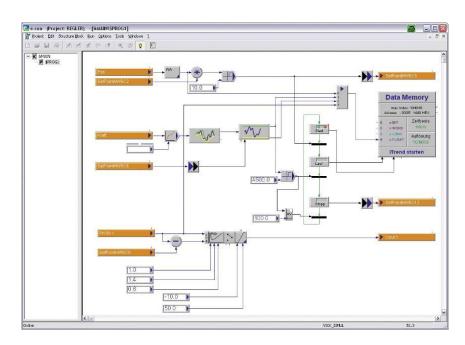
Q.brixx gate

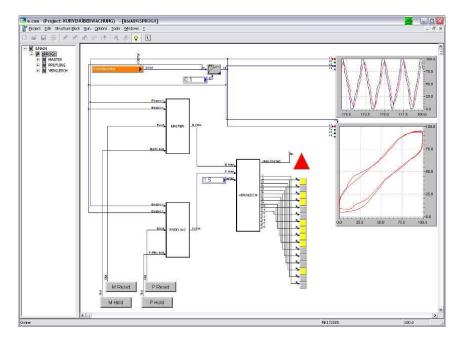


Base Unit with Test Controller

Programming Tool test.con

Using test.con for programming of the PAC-function in a graphical way:





ro	ject Libraries
(t)	Advanced System Functions (V1.0)
	Archive (V 5.0)
	Arithmetic (Time) V1.0
	Arithmetic (Word, Long, Float) (V4.0)
	Comparison (Time) V1.0 Control elements (V0.0)
	Controller (Float)
	Converter (Bit, Byte, Word, Long, Float, Text) (V4.0)
	Converter (Time) V1.0
÷	Counter (Word)
Þ	Device Data Access Functions
	Read access
1	Write access
	Digital Filter (V1.0) Edge detection (Bit)
	Extended SFB
	Flipflops (Bit)
	Function generator (V 3.0)
+	Global Variables and References (extended)
	Logic (Bit)
	Memory (V1.0)
	Numeric (Float)
	Operatingsystem-Functions (V1.0) Parameter (Time) V1.0
	Parameter blocks (V 1.0)
	Selection and comparison (Byte, Word, Long, Float)
	Comparator
	- Limit indicator
	Limiter
	Maximum
	- Minimum Multiplexer
	Switch
	Sequence blocks
F	Joining transition
	- Preset
	 Splitting transition
	Step
L	- Transition
	Shift and rotate (Byte, Word, Long) Signal generators (V1.0)
	Signal processing (V1.0)
	Standard
	Standard transmission terms (Float)
	String functions
	Timer (Float)
	Timer (Time) V2.0
	Visualization blocks (Time) V2.0
±)	Visualization Blocks (V6.0)

Specification subject to change without notice gantner-q.brixx-gate.pdf (Version 0511)

Gantner Instruments Incorporated 9835 Carroll Centre Road, Suite 100 San Diego, CA 92126 USA www.gantnerinstruments.com
 Toll Free: (877) 725-6997 (877 QBLOXXS)
 Direct: (858) 537-2060

info@gantnerinstruments.com
 Toll Free Fax: (800) 303-9381
 Direct Fax: (858) 537-2064