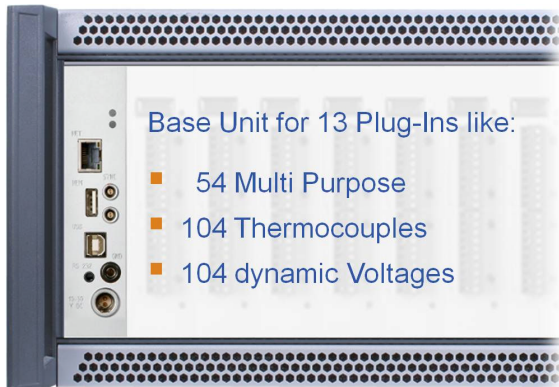


Q.raxx Base Unit

19" System with Test Controller



The Q.raxx product is based on the standardized 19" technology and is designed for measurements with a high level of flexibility, reliability and accuracy. The range of applications starts from small stand-alone solutions up to networked multi-channel applications in the field of stationary testing and assembly.

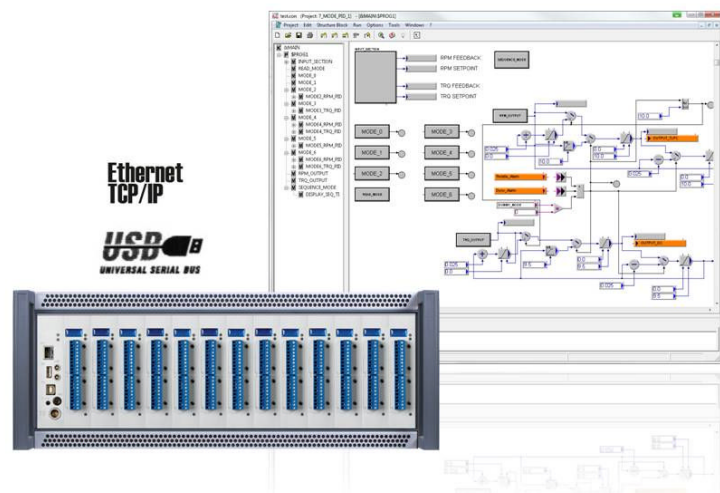
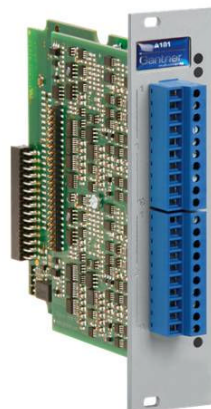
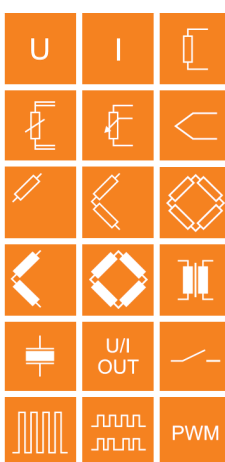
The wide range of available plug-in modules and the flexibility of the system configuration allows an optimized solution for each single task. Up to 13 plug-in modules in one system plus a Controller Unit provide a powerful package with PAC functionality, logging possibilities and an Ethernet TCP/IP interface.

Conclusion:

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 for all kind of test applications.

Most important features:

- Q.raxx base unit**
 consists of 19" rack, Test Controller Q.gate and power supply unit, ready for 13 measurement plug-ins
- Flexibility at high density**
 up to 13 modules in one system with a individual compilation, various input plugs available
- Robust and reliable**
 Standard 19" housing, 3 units
 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





Q.raxx Base Unit

19" System with Test Controller

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 Controller 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
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
	thermocouples: TCK
	others on request:



Q.raxx Base Unit

19" System 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
Housing (19" Rack)	
Width	84 HP
Height	3 U
Depth	175 mm
Kind	Desktop or rack mounting
PAC Functionality	
Cycle time	≥1 ms
Processing	cyclic or synchronized with data acquisition

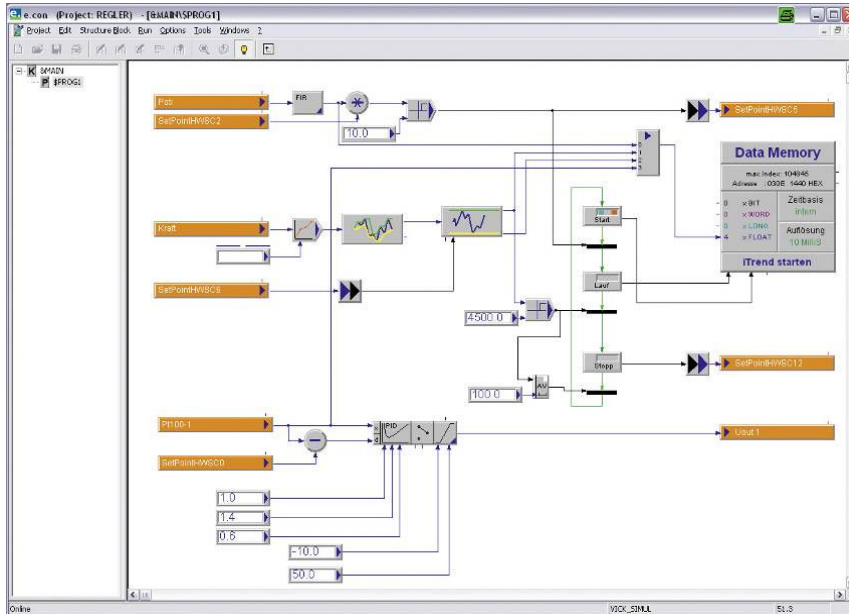


Q.raxx Base Unit

19" System with Test Controller

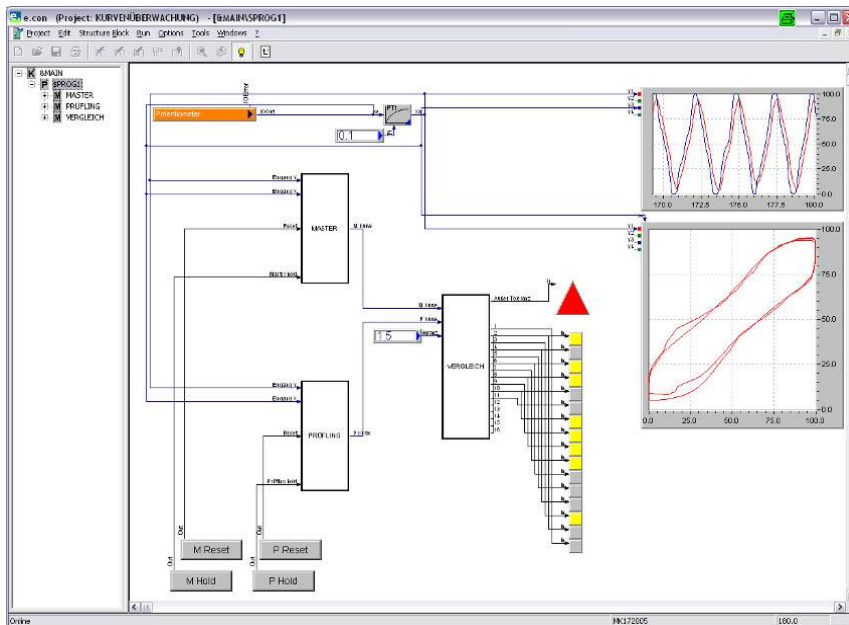
Programming Tool test.con

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



Project Libraries

- 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)
- Device Data Access Functions
 - Read access
 - 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-Funcions (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
 - Joining transition
 - Preset
 - Splitting transition
 - Step
 - 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)



Valid from January 2011. Specification subject to change without notice
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