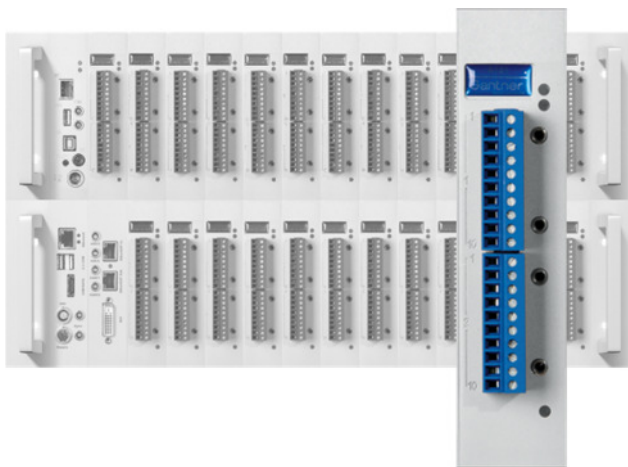




Q.raxx D104

Digital Input Plug-in Module



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:

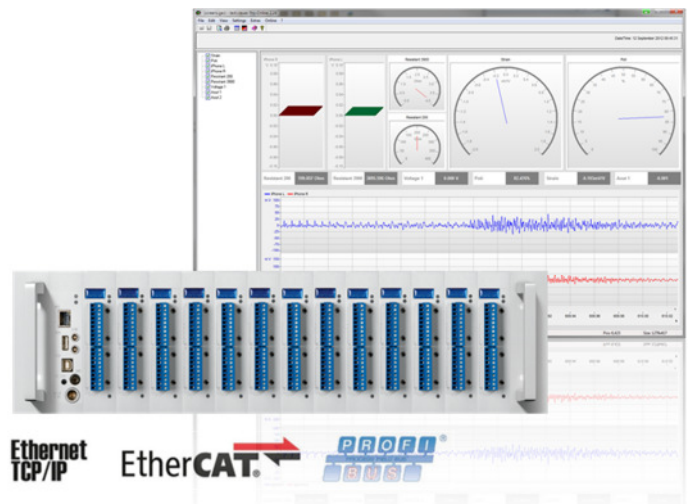
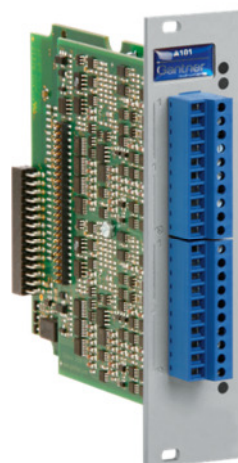
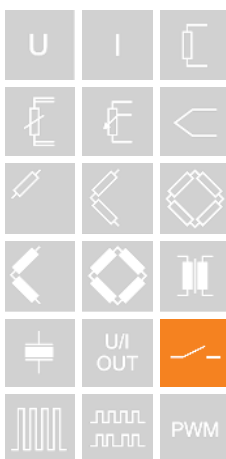
Dynamic signal acquisition up to 100 kHz, inputs and outputs for all types of signals, galvanic isolation of inputs and outputs, multi-channel solutions, high density packaging and intelligent signal conditioning for all kind of test applications.

Most important features of the system:

- **High density and flexibility**
up to 16 plug-in modules in one system in any constellation, flexible plug selection
- **Test Controller Q.station or Q.gate selectable**
Ethernet TCP/IP for configuration and data transfer, EtherCAT, internal memory expandable by USB device, logging features, PAC functionality, IRIG synchronization for details please see separate Test Controller data sheets
- **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

Most important features of the plug-in D104:

- **16 digital inputs**
state, single or bit set, host controlled
- **Configurable threshold**
TTL or high level (EN61131-2, Type1)
- **Short reaction time**
10 µs per input
- **Galvanic isolation**
I/O-signals (2 groups x 8 inputs), to power supply and to interface
Isolation voltage 500 VDC



Ethernet
TCP/IP

EtherCAT

PROFI
BUS



Q.raxx D104

Digital Input Plug-in Module

Digital Inputs	
Number	16
Input voltage	max. 30 VDC
Input current	max. 2 mA
Threshold (programmable)	TTL or
Signal voltage „0“	-3... 5 VDC (EN61131-2, Type1)
Signal voltage „1“	11... 30 VDC (EN61131-2, Type1)
Galvanic isolation	500 VDC, terminal 1/terminal 2 and against power supply and interface ¹
Function	
State	
Reaction time	10 µs
16-fold Bit-Set	specification such as simple state-input, 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
Dimension	
Front plate (W x H)	(30 x 128) mm
Depth	118 mm

¹ Noise pulses up to 1000 V, permanent up to 250 VDC