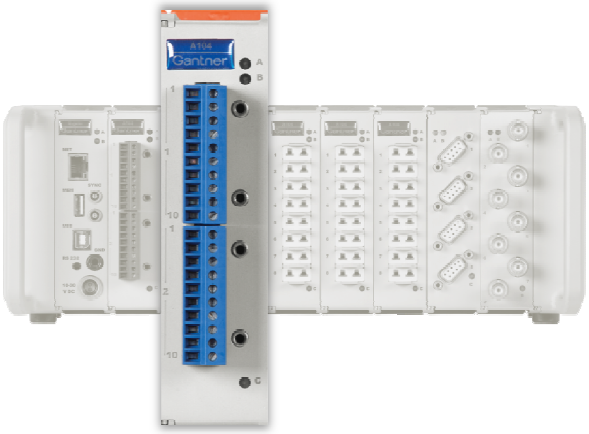
Q.brixx D105

Digital Output Module



The Q.brixx product line is designed for portable 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 mobile and stationary performance testing and structural monitoring.

The wide range of available modules and the flexibility of the system configuration allows an optimized solution for each single task. Up to 16 modules in one system plus a Controller Unit provide a powerful package with PAC functionality, logging possibilities and an Ethernet TCP/IP interface.

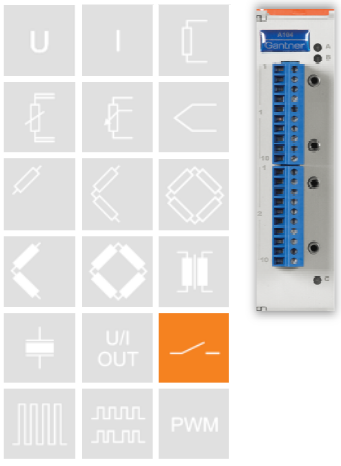
Conclusion: Dynamic signal acquisition up to 100 kHz, inputs and outputs for all types of signals, galvanic isolation of inputs and outputs, multi-channel solutions, high density packaging and intelligent signal conditioning for mobile application.

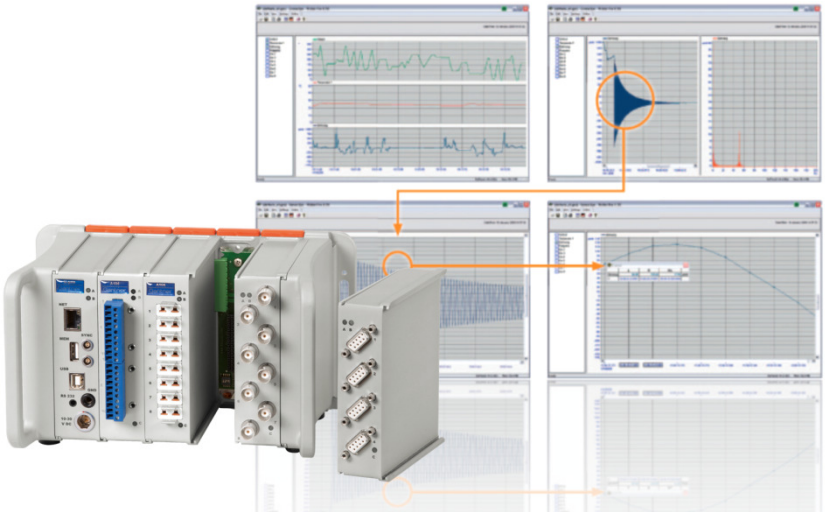
Most important features of the system:

- **High density and flexibility**
  up to 16 modules in one system in any constellation,
  flexible plug selection
- **Test Controller inclusive**
  Ethernet TCP/IP for configuration and data transfer,
  16 MByte data memory, expandable by USB device,
  logging features, PAC functionality, IRIG synchronization
- **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 module D105:

- **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
- **Galvanic isolation**
  I/O-signals (2 groups x 8 inputs), to power supply and to interface
  Isolation voltage 500 VDC





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Q.brixx D105

Digital Output Module

Digital Outputs			
Number	16		
Contact	open drain p-channel MOSFET (short circuit proof)		
Load	30 VDC/500 mA (ohmic Load)		
Isolation voltage	500 VDC, terminal 1/terminal 2 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

Warm Up Time
All declarations are valid after a warm up time of 45 minutes.

Valid from March 2012. Specification subject to change without notice
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