



## Q.raxx D105 Digital Output Plug-in Module

**Gantner**  
instruments



The Q.raxx product is based on the standardised 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 optimised 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:

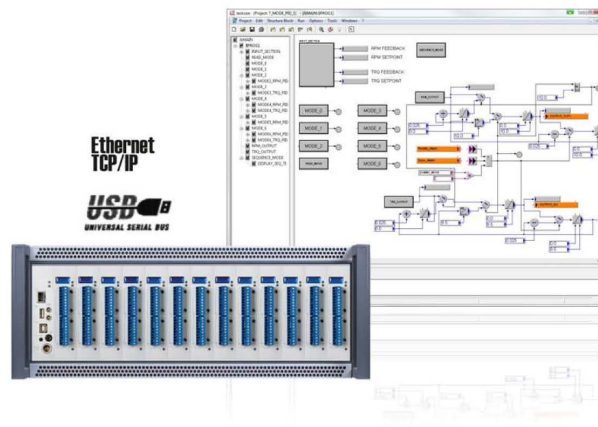
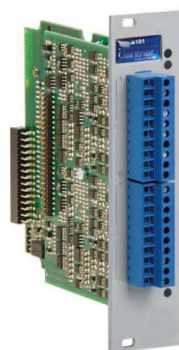
Dynamic signal acquisition up to 100 kHz, inputs and outputs for all types of signals, galvanic isolation of inputs and outputs, multi-channel solutions, high density packaging and intelligent signal conditioning for all kind of test applications.

### Most important features of the system:

- **High density and flexibility**  
Up to 16 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 61000-04 and EN 55011  
Temperature range -20 up to +60°C  
Power supply 10 up to 30 VDC

### Most important features of the plug-in 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



# Specifications

<b>Digital Outputs</b>			
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 <sup>1</sup>		
<b>Function</b>			
<b>State</b>			
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.		
<b>Power Supply</b>			
Power supply	10 up to 30 VDC, overvoltage and overload protection		
Power consumption	approx. 2 W		
Influence of the voltage	<0.001 %/V		
<b>Environmental</b>			
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		
<b>Dimension</b>			
Front plate (W x H)	(30 x 128) mm		
Depth	118 mm		

<sup>1</sup>Noise pulses up to 1000 V, permanent up to 250 VDC