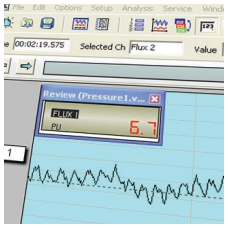
8 Channel data acquisition
with moorVMS-DAQ™



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moorVMS-DAQ™ - Data Acquisition

The moorVMS-DAQ™ data acquisition module enables analogue voltages from up to 8 externally connected systems (Moor or non Moor) to be captured with the moorVMS-PC™ software. The features include;

- 8 simultaneous channels / 16-bit resolution at 40Hz sampling frequency.
- Accepts ±10V analogue inputs with overvoltage protection of ±30V.
- Digital input triggering to control moorVMS-PC™ software from externally connected equipment.
- Digital output triggering to control externally connected equipment from the moorVMS-PC™ software.
- Industry standard BNC connections used throughout.

Connectivity

The moorVMS-DAQ™ provides 8 analogue inputs to sample analogue voltages from externally connected equipment.

The analogue inputs accept ±10V and allow voltages from a wide variety of equipment to be monitored and recorded by the moorVMS-PC™ software.

Digital Trigger

The digital input trigger accepts 0-5V logic level triggering for a minimum pulse width of 25ms and can only be used with the moorVMS-PC™ software to provide commands to start measurements or to add markers to measurement traces.

The digital output trigger provides 0-5V logic level triggering for a multiple of 25ms pulse width and is controlled by the user within the moorVMS-PC™ software by the use of actions and protocols, allowing you to trigger external connected equipment.

moorVMS-DAQ™ panels - back panel analogue outputs 1-4 and digital triggers, front panel analogue outputs 5-8.

Specifications:

Quality Control
Moor Instruments is certified to ISO 13485: 2003.
The moorVMS-DAQ™ is CE marked.

Classification
Medical devices directive 93/42/EEC: Class I, Active device for diagnosis.

Reliability
Assured by our 3 year basic warranty or 5 year extended warranty for the moorVMS-DAQ™ modules.

General
Power source: Universal voltage, 100-230V AC, 30VA, 50 to 60Hz.
Dimensions: W x H x D mm, Weight: kg
moorVMS-DAQ™: 235 x 60 x 200, 1.3kg.
Operating environment: Clinic or laboratory, excluding domestic.
Operating temperature: 15-30ºC.

Safety Standards
Complies with:
IEC 60601-1:2005, IEC 60601-1-2:2007.

Analogue Inputs

Number of inputs: 8 (Channels 1 - 4: Rear, Channels 5 - 8: Front)
Range: ±10V
Resolution: 1mV
Accuracy: ±5mV, ±0.5% (whichever is greater)
ADC Resolution: 16-Bit
Sampling rate: 40Hz
Signal bandwidth: DC – 13Hz (-3dB)
Input impedance: 37.7kΩ

Digital Input Trigger

Number of inputs: 1
Range: 0-5V (TTL), 5V Pull up, Level transition
Minimum pulse width: 25ms

Digital Output Trigger

Number of outputs: 1
Range: 0-5V (TTL) Level transition
Pulse width: Multiple of 25ms up to 600 seconds

Moor Instruments reserves the right to change specifications without notice.

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