

# RogaDAQ2

## Portable Data Acquisition and Analysis

RogaDAQ2 is a high performance portable Data Acquisition Device. It features two high quality, high speed, simultaneous sampling inputs, 4 auxiliary inputs, two configurable RPM-inputs and additional digital I/Os.

### SPECIFICATIONS

Analog Inputs	
BNC-Inputs	2, for analog signals
Simultaneously sampling ADCs	2
Resolution	24 Bit
Sampling rate	48 kHz max.
Range input	± 10 V max.
Selectable AC- or DC-coupling	
Selectable IEPE sensor	supply (4 mA/28 V)
Self adjusting Anti-Aliasing filter	
Accuracy	better ± 0,1 dB, Dynamic Range > 100 dB, THD < 0,005%, Frequency Response ± 0,05 dB
Channel deviation	< 0,01 dB, < 0,05°
Channel separation	> 85 dB

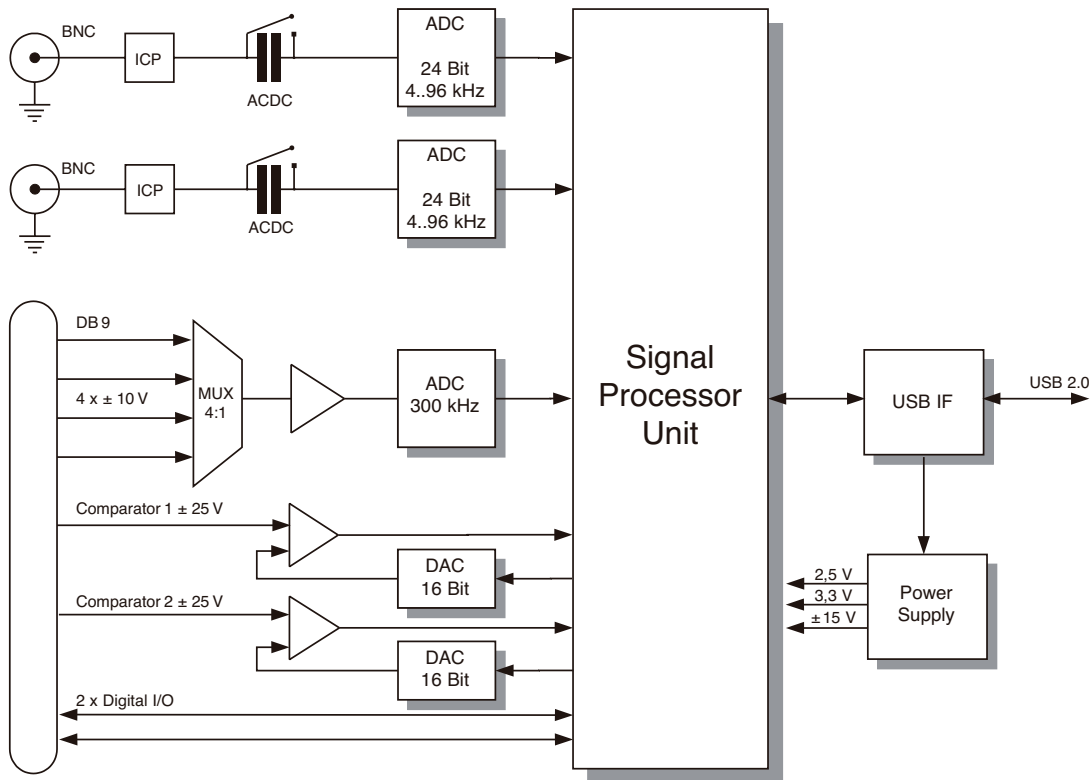
Auxiliary Analog Inputs	
multiplexed analog voltage inputs	4, on DB9 connector
Sampling rate	300 kHz
Range input	± 10 V

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RPM / Pulse Inputs	
RPM/ Pulse Inputs	2, ± 25 V on DB9 connector
Trigger Level	adjustable from -25 V to +25 V with 16 Bit resolution
Edge up/down programmable	
Resolution	< 42 ns

Digital I/O	
Digital LVTTTL I/Os	2
Separately configurable	
Max. Input voltage	15 V (V <sub>IL</sub> max. 0,8 V, V <sub>IH</sub> min 2,5 V)
Output voltage	V <sub>OL</sub> max. 0,4 V, V <sub>OH</sub> min 2,4 V at 2 mA

Other Specifications	
USB 2.0 conform Plug & Play Interface	
Powered by USB	
Aluminum housing	133 mm x 85 mm x 36 mm
Weight	250 g



The main inputs of the RogaDAQ2 are simultaneously sampled precision analog inputs for recording dynamic signals. Sampling rates up to 48 kHz at up to 24 Bit resolution are supported. Each channel features instrumentation quality preamplifiers, AC or DC coupling and constant current sensor supply for directly supporting IEPE-type sensors.

In addition, the RogaDAQ2 is equipped two highly flexible RPM inputs featuring individual pulse width counters, yielding RPM and phase relative to the main channels. The trigger levels are programmable between +/- 25 Volts.

In a complex measurement application it is often necessary to measure the main channel inputs in correlation with other data. For this purpose, the RogaDAQ2 features 4 auxiliary analog channels along with 2 digital I/Os. Other data such as temperature, pressure, status signals and control signals can therefore be handled in context with the main signals.

Due to the RogaDAQ2 innovative design using DSP's, it is possible to reprogram the RogaDAQ2 to support customer specific applications.

In addition to an API-DLL for implementation into own software environments, the RogaDAQ2 is delivered with a ready to run Analyzer software. It supports visualization of all channels and spectral analysis of the main channels. Hard disc recording to TAFFmat is supported.

The high quality and practical features make the RogaDAQ2 a reliable and powerful tool for all your signal analysis needs.