RogaDAQ208
Portable Data Acquisition and Analysis

RogaDAQ208 is a high performance portable Data Acquisition Device. It features two high quality, high speed, simultaneous sampling inputs, eight auxiliary inputs, two configurable RPM-inputs and additional digital I/Os.

SPECIFICATIONS

Analog Inputs	
BNC-inputs	2, for analog signals (± 10 V max.)
Simultaneously sampling ADCs	2
Resolution	24 Bit
Sampling rate	50 kHz max.
Programmable gain	preamp 1/10/100
Selectable AC- or DC-coupling	
Selectable IEPE sensor	supply (4mA/28V)
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

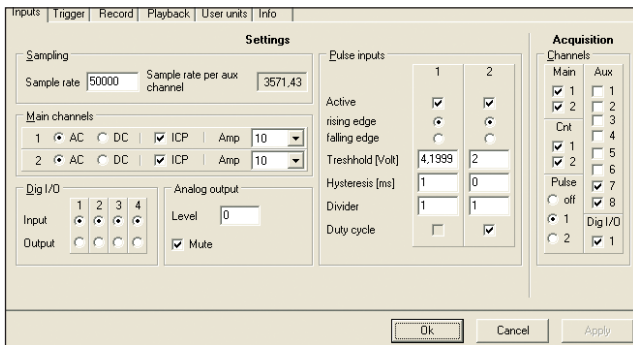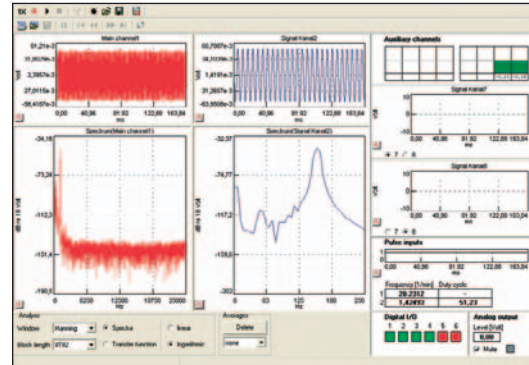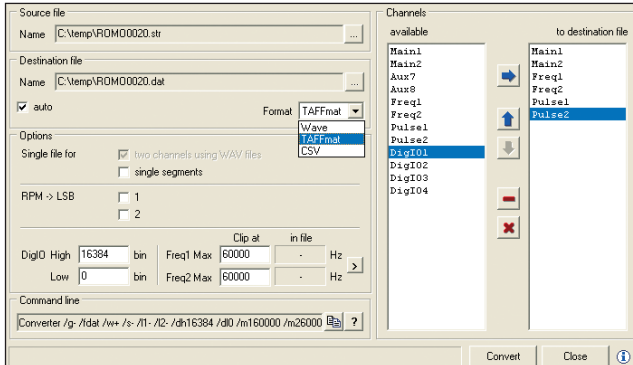| Auxiliary Analog Inputs	
Analog voltage inputs	8, multiplexed on DB25 connector
16 Bit ADC	100 kHz sampling rate ± 10 V input range

Analog Output	
Analog Output	1, on DB25 connector ± 10 V output range
D/A converter,	16 Bit, max. 50 kHz sampling rate
Reconstruction filter, Mute	

RPM / Pulse Inputs	
RPM/ Pulse Inputs	2, ± 25 V on DB25 connector
Trigger Level adjustable	from -25V to +25V with 16bit resolution
Edge up/down programmable	
Resolution	< 16 ns

Digital I/O	
Digital LVTTL I/Os	4
Separately configurable	
Max. Input voltage	15 V (VIL max. 0,8 V, VIH min 2,5 V)
Output voltage	VOL max. 0,4 V, VOH min 2,4 V at 2 mA

Sonstiges	
Analog-Devices	ADSP-2186M 64 MHz DSP
USB 2.0 & 1.1 conform Plug & Play Interface	
8 – 30 Volt DC (230 Volt AC-Adapter included)	
Aluminum housing	170 mm x 113 mm x 31 mm

The main inputs of the RogaDAQ208 are simultaneously sampled precision analog inputs for recording dynamic signals. Sampling rates up to 50 kHz at up to 24 bit resolution are supported. Each channel features instrumentation quality preamplifiers with selectable gain, AC or DC coupling and constant current sensor supply for directly supporting IEPE-type sensors. In addition, the RogaDAQ208 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 RogaDAQ208 features eight auxiliary analog channels along with four 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 RogaDAQ208s innovative design using DSP`s and FPGA`s, it is possible to reprogram the RogaDAQ208 to support customer specific applications. In addition to an API-DLL for implementation into own software environments, the RogaDAQ208 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 extended WAV is also supported, as well as export of raw data to TAFFmat, ASCII and CSV format for further analysis and presentation.

The high quality and practical features make the RogaDAQ208 a reliable and powerful tool for all your signal analysis needs.

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