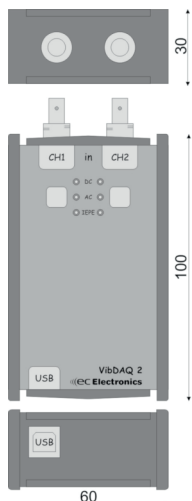# VIBDAQ 2.0

Double channel data acquisition module

DESCRIPTION

VIBDAQ 2.0 is a double channel data acquisition module for signal processing in IEPE standard. The inputs can be also configured as AC or DC inputs, the selected type is indicated by an appropriate diode on the panel, and can be switched using proper buttons. The device is fully powered by USB port. VIBDAQ 2.0 has signal overload indicator for both channels, which presents information using diodes on the panel. The small size and weight make the device very convenient to use.

PARAMETRS

Number of input channels	2
Input channels connectors	BNC
Input signal type	DC, AC, ICP®
ICP®	24 VDC, 2.4 mA
Input voltage range	±10 V
Input impedance	AC: 220 kΩ DC: 220Ω ICP®: 110kΩ
THD	typically: -88 dB max: -70dB (at F_s =48 kHz, input signal: 1 kHz sinusoid)
SNR	92 dB
Crosstalk	1 kHz sinusoid : < -120 dB 10 kHz sinusoid: - 90 dB 20 kHz sinusoid : < - 86 dB
A/C converter	multi bit Delta - Sigma 16 bit (optionally 24 bit)
Sampling frequency	44.1 kHz, 48 kHz (16 bit, 24 bit) 96 kHz (only for 16 bit)
Anti-aliasing filter	digital decimation
Anti-aliasing filter gain	0-0.39 F_s: 0.1 dB 0.55-0.63 F_s: 75 dB 0.1425 F_s: 0.25 dB 0.45 F_s: 3 dB 0.5 F_s:17.5 dB
Communication interface	USB
Power supply	USB port
Power consumption	approx. 300 mA
Dimensions	60 x 100 x 30 mm
Weight	250 g
Operational temperature	0-70°C

FEATURES

- Possibility to work with two IEPE sensors
- Ability to switch the input type to DC or
- The module is fully powered from USB port AC
- Indication of signal overload – for both channels
- Does not require external drivers for the system
- In the operating system the device is seen as a sound card