v 4.1 - 4- or 8-channel data acquisition module

VIBdaq 4.1 is a 4- or 8-channel (optionally) data acquisition system for signal processing in IEPE standard. The device features a USB interface, which, besides the data transfer, is used for powering up the module and connected vibration sensors.

All channels of the device can work independently, which means, that the gain level can be individually adjusted. VIBdaq 4.1 allows for measurement chain diagnostics, and can be fully controlled from a PC computer using dedicated software package.

The durable aluminum housing makes VIBdaq 4.1 a perfect solution for harsh industrial environment.

Features:

- Supports up to 4 or 8 IEPE sensors
- Testing the sensor circuits for open/short circuit
- Fully powered from USB port
- Works with DASYLab and LabVIEW software

Key parameters

Number of input channels	4 or 8 (optionally)
Input type	IEPE/ICP® (24 VDC, 2.4 mA)
Connector type	BNC
Diode indicators	open/short input
Input impedance	100 kΩ, AC-coupled
Gain/input voltage range	x1/ ± 10 V
	x2/ ± 15 V
	x5/ ± 2 V
	x10/ ± 1 V
Gain error	< 0.5%

Gain drift	12 dB/oct.
Power	5V DC from USB max 400 mA
Communication interface	USB 1.1; USB 2.0
Max. sampling frequency	100 kS/s
Resolution	16 bit
Signal-to-Noise	-80 dB (from 0 to 25 kHz)
Cables	USB, 4x BNC-BNC
Software	drivers for Daty Lab & Lab View
Operational temperature	0°C to +60°C
Storage temperature	-10°C to +70°C
Housing	aluminium
Dimensions	196 x 110 x 45 mm (L x W x H)
Set includes:	module, suitcase, cables, user manual