AV ACQUISITION 2001

dual channel data acquisition module with configurable gain

introduction

AVA 2001 is a double channel data acquisition module for signal processing in IEPE standard. Device's inputs can be also configured as AC or DC inputs. The selected input type is indicated by an appropriate diode on the panel, and can be switched using proper buttons. The device is fully powered from USB port. The small size and weight make the device very convenient to use. AVA 2001 has configurable gain (1,10,100) for each channel that is indicated on the panel by diodes, and is easily adjustable using buttons on the panel. The device has also signal overload indicator for both channels.The module is designed for mechanical components condition analysis based on collected vibration time signals.

TECHNICAL DATA

PARAMETER	DESCRIPTION
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: 220 Ω • ICP®: 110kΩ
THD	typically: -88 dB max: -70dB (at F =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: ± 0,1 dB • 0,55-0,63 F: 75 dB • 0,1425 F: 0,25 dB • 0,45 F: 3 dB • 0,5 F:17,5 dB
Communication interface	USB
Power supply	port USB
Power consumption	approx. 300 mA
Dimensions	60 x 100 x 30 mm
Weight	250 g
Operational temperature	0°C – 70°C

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WOULD YOU LIKE TO SEE HOW IT WORKS?

We offer a **free demonstration of the product!** Schedule it now and don't forget to ask about our **free of charge technical support service!**

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