Dide Pardaz Saba

## *Shock and Acceleration Logger*

This acceleration logger based on MEMS technology is a useful device for fast and accurate vibration recording. Integrated sensor, battery and memory makes it a high performance and simple solution for industrial and research applications.

When connected to a PC, the logger works as a flash memory and user can access the recorded files, software and documents. Also the user can develop the software according to application requirements based on source codes delivered in NI LabVIEW and MATLAB/Simulink.
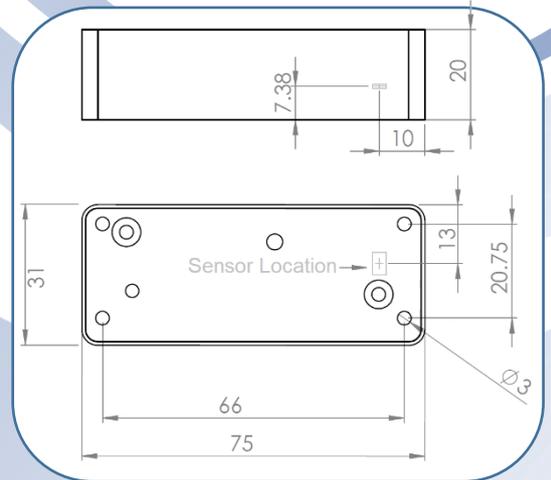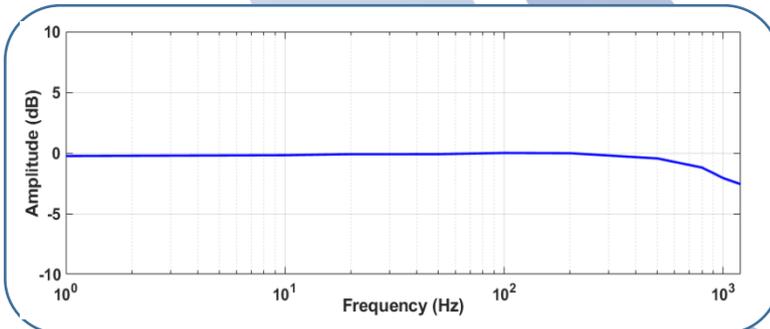
Specification	Unit	Model			
		LOG 345	LOG 375	LOG 355	LOG 357
Measurement Directions	---	X , Y , Z			
Measurement Range	g	± 2/4/8/16	± 200	± 2/4/8	± 10/20/40
Frequency Range (± 3dB)	Hz	0 ~ 1000			
Output Data Rate (± 2%)	Hz	3200	3200	4000	4000
Sensitivity (on lower range)	Counts/g	256	20.48	256000	51200
Effective Number of Bits	---	10.5	10.5	12	12
Broadband Resolution (RMS Noise, 1~1000 Hz)	g	0.010 (All ranges)	0.125	< 0.001 (2g range)	< 0.004 (10g range)
Mounted Resonance Frequency	Hz	> 3000			
Non-Linearity	%	± 0.5	± 0.25	± 0.1	± 0.1
Transverse Sensitivity	%	< 5			
Operating Temperature	°C	-40 ~ +85			
Storage Temperature	°C	-50 ~ +100			
Temperature Sensitivity	% / °C	± 0.01	± 0.02	± 0.01	± 0.01
Interface Connector	---	Micro USB			
Memory Capacity	hour	42 hour 3 axis / 126 hour single axis			
Battery Capacity	hour	4 hour continuous recording (Extendable by standard power bank)			
Size	mm	Max. 75(L) × 31(W) × 20(H)			
Weight	gr	70			
Case Material	---	Hard Anodized Aluminum			
Mounting	---	4 × Ø 3 mm			

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