# Dide Pardaz Saba

USB Accelerometers

This USB output accelerometer based on MEMS technology is a useful sensor for fast and accurate vibration measurement. Internal data acquisition makes it a cost effective and simple solution for industrial and research applications.

Supporting both Windows and Android operating systems allows the user to form his own PC, Smart Phone, Tablet or Laptop to a vibration measurement and analyzer system. Also the user can develop the software according to application requirements based on source codes delivered in NI LabVIEW and MATLAB/Simulink.
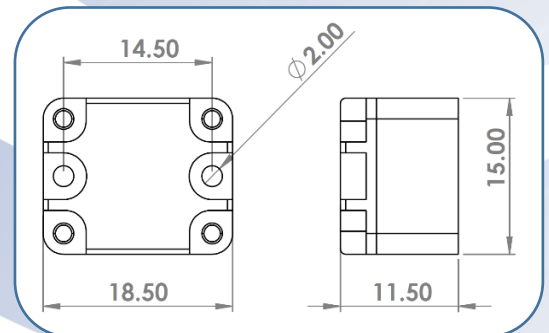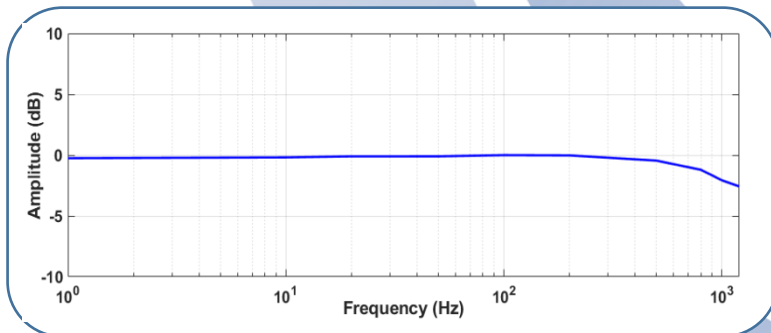
Specification	Unit	Model			
		DPS 345	DPS 375	DPS 355	DPS 357
Measurement Directions	---	X , Y , Z			
Measurement Range	g	± 2/4/8/16	± 200	± 2/4/8	± 10/20/40
Frequency Range (± 3dB)	Hz	0 ~ 1000			
Output Data Rate (± 2%)	Hz	3200	3200	4000	4000
Sensitivity (on lower range)	Counts/g	256	20.48	256000	51200
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	> 5000			
Non-Linearity	%	± 0.5	± 0.25	± 0.1	± 0.1
Transverse Sensitivity	%	< 5			
Operating Temperature	℃	-40 ~ +85			
Storage Temperature	℃	-50 ~ +100			
Temperature Sensitivity	% / ℃	± 0.01	± 0.02	± 0.01	± 0.01
Output	---	USB 2.0			
Power Consumption	mA @ 5VDC	< 15			
Cable Length	M	0.9 m Integral Cable, (Extendable up to 30 m by USB ext.)			
Size	mm	Max. 19(L) × 15(W) × 13(H)			
Weight (without cable)	gr	Max. 8			
Case Material	---	Hard Anodized Aluminum			
Case Sealing	---	Epoxy Resin			
Mounting	---	2 × Ø2 mm			
IP Rating	---	IP 65			

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