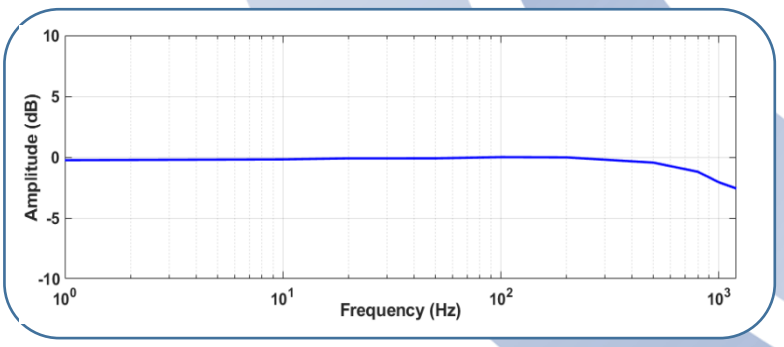
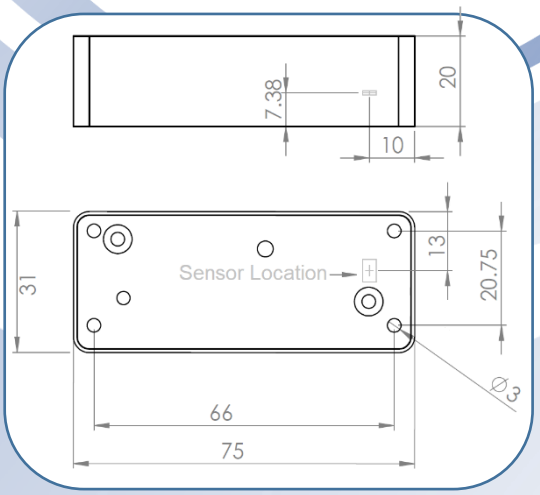
# Dide Pardaz Saba

## Shock and Acceleration Logger


*LOG 3xx, series of acceleration loggers based on MEMS technology, are useful devices 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 users can access the recorded files, software and documents. Moreover, since it has an open source software in NI LabVIEW and MATLAB/Simulink, users can develop the software according to application requirements.*




| 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 | 0.012 (All ranges) | 0.150 | < 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 × Ø3 mm | | | |

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