

## Vibration Harvester Datalogger (VDL-A)

AdaptivEnergy's Vibration Harvester Datalogger is the ideal tool for determining how much energy can be harvested from any vibration environment. Built to withstand the most demanding field conditions, the VDL-001 can provide rapid analytical feedback in known environments or can be deployed for several consecutive days to measure more unfamiliar conditions. The datalogger also ships with weatherproof connections for mating with AdaptivEnergy's V3- energy harvester line.



### Specifications

Data acquisition rate	300 Hz
Energy harvester voltage precision (0-5 V)	0.001 V
Vibration precision (X-Y-Z-axis vibration)	0.001 g
Vibration range	± 2 g
Data storage capacity	1 GB

### Mechanical Characteristics

Length	125 mm
Width	67 mm
Height	34 mm
Weight	514 g
Housing Material	Anodized Aluminum

### Operating Conditions

Operating Temperature Range	-40 to +80°C
Storage Temperature Range	-40 to +80°C
Environmental Specifications	IP64



### Key Features

- ✔ Vibration/Impact-based datalogger
- ✔ Collects 3-axis vibration data from an onboard accelerometer
- ✔ Saves all data to SD card for retrieval
  - Vibration profiles
  - Energy harvester performance
  - Date/Time Stamp
- ✔ Weatherproof; ideal for deployment in transportation and industrial settings
- ✔ Extra long battery life (> 1week continuous operation)
- ✔ Multiple mounting methods (magnets & external mounting brackets included)

### Main Applications

- ✔ Evaluating transportation environments
- ✔ Industrial motors, pumps, and machinery
- ✔ Shipping container monitoring

### Auxiliary Features

- ✔ Two weatherproof connections for monitoring energy harvester performance
- ✔ Compatible with AdaptivEnergy's V3- vibration harvester product line
- ✔ PC-based user interface software for data plotting & analysis

AdaptivEnergy designs, manufactures and markets energy harvesting power solutions enabling wireless sensing and asset tracking devices.

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