



Information sheet



Adash 4700 Vibration Recorder

Applications:

- ✎ Vibration diagnostics of machines
- ✎ Measurement in inaccessible places
- ✎ Measurement on moving parts
- ✎ Diagnostics of bearings

Characteristics:

- ✎ Fully automated measurement
- ✎ 4 measurement methods for easy diagnostics
- ✎ Measurement and saving of RMS or PEAK value in specified interval
- ✎ Measurement of Time signal (up to memory size)
- ✎ FFT analysis
- ✎ Envelope analysis for bearing conditions
- ✎ Data storage to MMC memory card
- ✎ Internal battery for continuous measurement up to 8 hour
- ✎ Mounting tools to attach to machinery
- ✎ Standard high quality piezo-electric sensor for measurement
- ✎ Indication of overload and defects of sensor or cable
- ✎ Indication of instrument condition

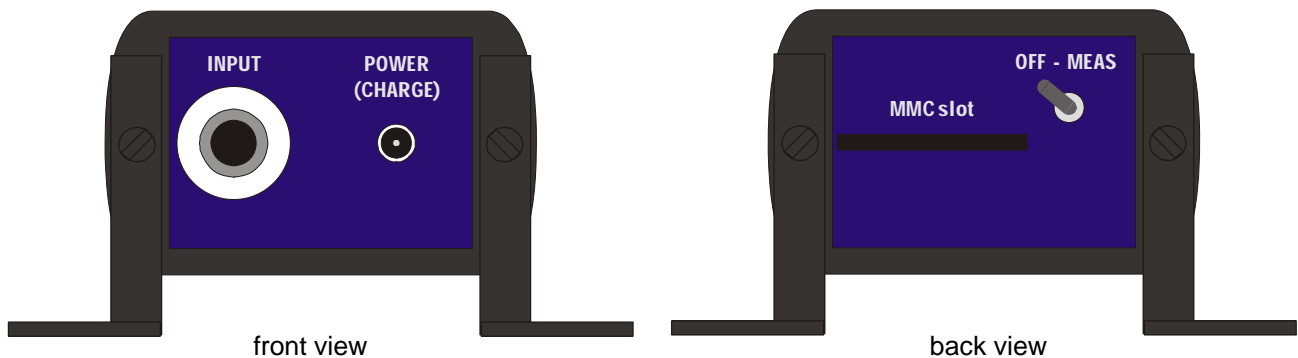


Device description:

The ADASH 4700- Vibration Recorder is designed for measurement in inaccessible places. It has been developed as individual unit with its own built-in power supply. The instrument can be mounted directly to a machine by bolts or other fixtures. This feature enables the 4700 to take measurements from points with difficult or no access (e.g. moving parts of machines, dangerous areas, etc.).

It is possible to measure a standard time signal (40kHz sampling freq.) or a long-duration trend of wideband static values (True RMS, True Peak or Envelope modulation). The setup of instrument is created on a PC and is saved as a file to the memory card. The measurement configuration in the memory card is automatically read after the 4700 is switched on. The 4700 will continue to take the required data automatically and free of human operation until either the battery is discharged, the memory is full or it is switched off by the user.

Standard flash card (MMC or RS-MMS) with capacity from 128MB to 1GB is used for data storage. The continuous measurement of a time signal is saving approx. 10MB of data per minute. The time capacity of memory can therefore be from 12 to 100 minutes. Static, trend, measurements have lower memory consumption, so the time capacity of the memory is much larger. After the measurements are completed, the data is transferred to PC (by standard memory reader/writer). Data analysis can then be made by other software, e.g. Adash DDS, SigView, etc. The internal power supply (rechargeable battery) enables up to 8 hours of continuous measurement. By using an external power supply the monitoring time is only limited by memory size.



📁 Technical specification:

Input channels:	- 1x ICP supplied accelerometer with a sensitivity of 100 mV/g for vibration measurements / recording
Measurement method:	- ISO standard velocity measurement (mm/s, ips, 10Hz – 1kHz band) - LB low speed (large bearings condition) measurement (acceleration in g, 0.5kHz–16kHz band) - HB general bearings condition measurement (acceleration in g, 5–16kHz band) - LIN wide band acceleration in g, 0.8Hz – 16kHz band - ENV envelope analysis in LB or HB band
Data processing:	- measuring of TRUE RMS value - measuring of TRUE PEAK value - analysis of TIME signal - FFT analysis - recording vibrations to WAV format (PC acoustic format)
Measurement ranges:	- approx. 100dB, max. 80g peak for sensor 100mV/g
Memory:	- MMC card from 128MB to 1GB
Power Supply:	- internal LiPOL rechargeable battery 5V - external: charger + power supply 5V/1A
Measurement time:	- up to 8 hour continuous measuring (for fully charged battery)
Size:	- 120 x 60 x 35 mm
Weight:	- approx. 250 g
Accessories:	- vibration sensor, magnetic base, cable - battery charger, transportation case - mounting tools