

MECHANIC'S STETHOSCOPE

RVM-120

5. Operation

- 5.1 Slide the battery cover and install batteries. Pay attention to the battery poles.
- 5.2 Fix the magnetic base or a stinger probe (cone or ball) to the sensors.
- 5.3 Connect the sensors to the main unit.
- 5.4 Plug in the earphone to the earphone jack.
- 5.5 press the power key to switch on the stethoscope and the LED lights to indicate that the unit works.
- 5.6 Press the Mode key to select the working sensor. One can select Left (mono) , Right(mono), or both channels (stereo) to monitor.
- 5.7 Lightly touch the probe with your hand, you will hear the response sound from the earphone. That means that you can start your detection.
- 5.8 Adjust the volume key for a desire volume.
- 5.9 Touch the end of probe or magnetic base to the positions to be monitored. Pay attention to any sound change from the earphone.

1. General Description

- * Widely used in ship, automobile, chemical manufacture, metallurgy, machine, household appliance and many other fields. It can pick up and amplify the weak audio signals via a sensitive piezoelectric sensor, and distinguish the normal/abnormal signal and its location.
- * Designed to help locate the source of excess bearing and machine noise easily at low cost. It is an ideal easy to use listening device for mechanical generated noise in all types of applications.
- * Used to quickly locate the source of engine noise such as piston slap, worn gears and bearings, damaged valves, water pump failure, blown gaskets. Also useful tracking down dashboard rattles and squeaks.

2. Main applications

- * Rapidly detect the machine noise from a diesel engine, an air cylinder or an automobile, and exactly find out the malfunction position.
- * Used to check the piston slap, worn gears, damaged valves and bearings, water pump failure in industry.

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5.10 Finally you can locate the position where a certain noise comes from. According to the experience and the relevant knowledge, you can easily find the hidden trouble or the position where the malfunction exists. The 3.5 mm jack socket tape output can also be fed into an audio tape recorder to store the data for either further analysis or as a reference for future comparison.

5.

- * Monitor the automatic assembly line to ensure proper operation.
- * Identify the abnormal noise from an engine or a motor to avoid accident.
- * Monitor the working of all kinds of axletrees.
- * Monitor the working of a ship or vessel.
- * Used in chemical industry to check whether the liquid in a pipe is flowing or blocked.
- * Used in the maintenance of various vehicles and household appliances.

3. Specifications

Frequency range: 10-10KHz
 Input Impedance: >20M
 Ambient Noise permitted: 100dB
 Working Temperature: -10~60°C
 Power supply: 4x1.5 AAA batteries
 Size: 156×67×28mm
 Weight: 270 g(including sensors)

4. Configuration

The unit consists of 2 separate probes, an earphone set and main part.



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| 4.1 Sensors | 4.7 Volume up |
| 4.2 Signal LED bar | 4.8 Volume down |
| 4.3 Channel select key | 4.9 Stinger probe |
| 4.4 Chanel indicator LED | 4.10 Battery cover |
| 4.5 Earphone set | 4.11 Power key |
| 4.6 Earphone jack | 4.12 Powerful magnetic base |

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