

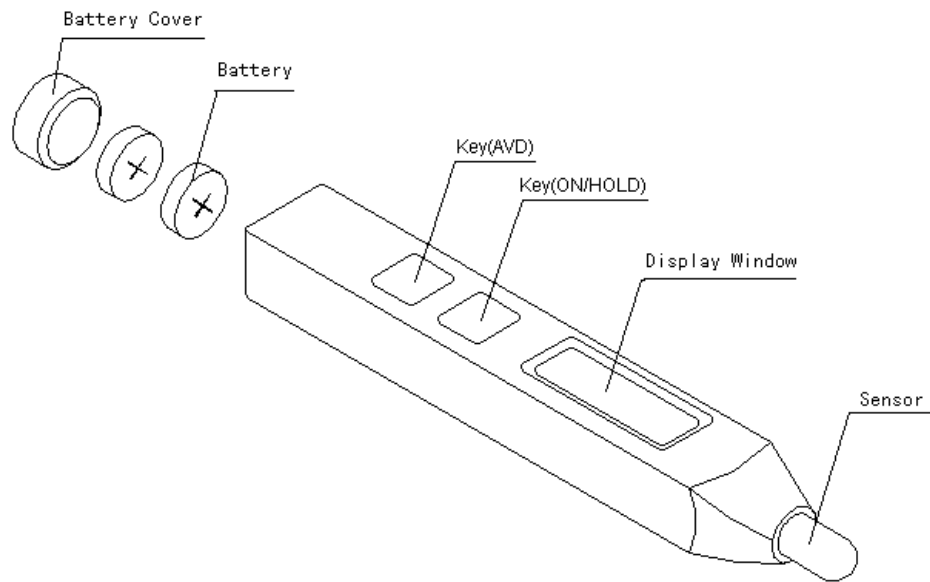
SaluTron Vibro

User Manual



This manual applies to the models SaluTron Vibro 200 and SaluTron Vibro 260.

1. Structure



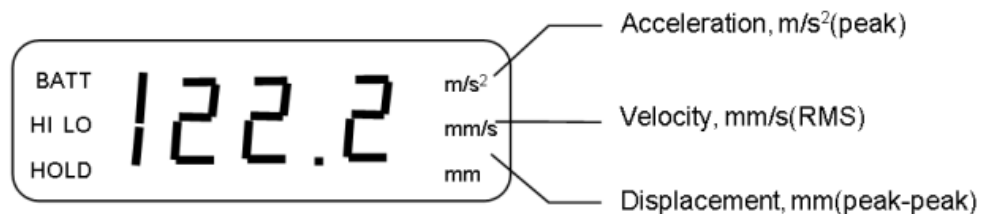
Device structure (labels in the figure: Battery Cover, Battery, Key(AVD), Key(ON/HOLD), Display Window, Sensor).

The device consists of the following components:

- Battery cover
- Battery (2 pcs)
- “AVD” key – selection of the measured quantity (SaluTron Vibro 260 only)
- “ON/HOLD” key – start measurement / hold reading
- Display window (LC display)
- Measuring tip (sensor)

2. Operation

Display window



Display window (labels in the figure: Acceleration = acceleration m/s^2 (peak), Velocity = vibration velocity mm/s (RMS), Displacement = vibration displacement mm (peak–peak)).

Indicator	Meaning
BATT	Low battery – replace the batteries
HI / LO	Measuring range high / low (acceleration)
HOLD	The reading is held
m/s ²	Acceleration, m/s ² (peak)
mm/s	Vibration velocity, mm/s (RMS)
mm	Vibration displacement, mm (peak–peak)

Place the measuring tip perpendicularly onto the surface to be tested. Use the “AVD” key to select the required measured quantity. The order is: “acceleration (LO)” → “acceleration (HI)” → “velocity” → “displacement” → “acceleration (LO)”. Then press the “ON/HOLD” key to start the measurement. When the key is released, the reading is frozen and the display shows “HOLD”.

If the reading is outside the measuring range, the display shows “1.”. The reading is held for about 10 seconds after the key is released; the device then switches off automatically.

When the display shows “BATT”, the batteries must be replaced, otherwise incorrect readings may be produced. Always replace both batteries at the same time.

Note: This manual applies to two models – SaluTron Vibro 200 and SaluTron Vibro 260. The SaluTron Vibro 200 model has only the “ON/HOLD” key and measures vibration velocity only.

3. Technical Data

Parameter	SaluTron Vibro
Measuring range	Vibration velocity: 0.1 mm/s – 199.9 mm/s (RMS)
Frequency range	Vibration velocity: 10 Hz – 1 kHz
Accuracy	±5 % ±2 digits
Display	3½-digit LC display
Power supply	two button cells (LR44 or SR44)
Battery life	approx. 5 hours of continuous operation
Operating temperature	0 °C – 40 °C
Humidity	< 85 %
Dimensions	152 mm × 22 mm × 16 mm

4. Scope of delivery

Standard configuration:

No.	Item	Quantity
1	Main unit	1
2	Screwdriver	1
3	Batteries SR44 / LR44, 1.5 V	2
4	Storage case	1
5	Documentation	1 (set)

5. Notes

- When replacing the batteries, insert them with the positive pole “ $\oplus$ ” facing downwards.
- The device has no memory function. Note down the readings if you want to keep them.
- Choose the measuring points at the bearing, the bearing support or other structural components that clearly reflect the vibration behaviour.
- To keep the measuring tip in close contact with the surface being tested, the contact pressure should be between 5 N and 20 N. Also hold the device perpendicular to the surface.

Appendix: Machine vibration severity grades according to ISO 2372

Assessment of the vibration velocity (RMS) in mm/s for machine classes I to IV:

v (RMS) mm/s	Class I	Class II	Class III	Class IV
0.28	excellent	excellent	excellent	excellent
0.45	excellent	excellent	excellent	excellent
0.71	excellent	excellent	excellent	excellent
1.12	good	excellent	excellent	excellent
1.8	good	good	excellent	excellent
2.8	bad	good	good	excellent
4.5	bad	bad	good	good
7.1	forbidden	bad	bad	good
11.2	forbidden	forbidden	bad	bad
18	forbidden	forbidden	forbidden	bad
28	forbidden	forbidden	forbidden	forbidden
45	forbidden	forbidden	forbidden	forbidden

Notes:

1. Class I: small motors (< 15 kW); Class II: medium motors (15 kW – 75 kW); Class III: large motors on a rigid foundation; Class IV: large motors on a flexible foundation.
2. The measurement must be carried out in three mutually perpendicular directions on the bearing housing.

6. Environment and Disposal



For the sake of environmental protection, please dispose of the device properly. Do not put the device in household waste; instead, hand it in at a collection point for electronic waste or return it to your supplier.



Remove the batteries beforehand and dispose of them properly at a battery collection container.

Packaging materials are raw materials too! Please recycle them accordingly.



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