

Designed for in-the-field calibration of vibration measurement chains, this portable unit offers a stable and reliable vibration signal of 10 ms². Due to the frequency of 159.15 Hz (1000 rad/s) this acceleration-level corresponds nicely to 10 ms velocity and 10 μm displacement.

A built-in control loop with small reference transducer ensures the vibration level to be 10 ms² within ± 3% for different transducer loads up to a weight of 100 gram. The specially designed electro-magnetic shakertable keeps the transverse motion and distortion to an absolute minimum.

Specifications hand-held vibration calibrator Type AT01

Excitation frequency:	159.15 Hz (± 0.5%)
RMS Acceleration:	10 m/s ² (± 3%)
RMS Velocity:	10 m/s
RMS Displacement:	10 micrometer
Transverse motion:	< 5%
Start-up time:	< 5 sec
Max. load on table:	100 gram
Distortion 0.1 to 10 gram load:	< 3%
>10 gram load:	< 1.5%
Table diameter:	14 mm
Accelerometer mounting thread:	M5 or 10-32 UNF (to be specified on order)
Max. torque on table:	0.5 N.m
Operational temperature range:	-10 to +40 °C
Batteries:	2x 9 Volt
Battery lifetime:	> 100 minutes continuous operation (> 500 calibration cycles)
Dimensions:	58 mm round and 180 mm long
Weight:	1060 gram (incl. batteries)

