

Vibration Meter with Accelerometer Calibration options.

Pre-set levels and frequencies for calibration.

Frequency Nominal [Hz]	Applied acceleration level in [ms ⁻²] or equivalent for Velocity or Displacement				
15.9	1	2	N/A	N/A	N/A
40.0	1	2	5	N/A	N/A
80.0	1	2	5	10	N/A
159.2	1	2	5	10	20
320.0	1	2	5	10	20
640.0	1	2	5	10	20
1280.1	1	2	5	10	20

Option 1: Results in **Acceleration** [ms⁻²]

Option 2: Results in **Velocity** [mms⁻¹]

Option 3: Results in **Displacement** [mm]

Option 4: Results in both **Acceleration** [ms⁻²] and **Velocity** [mms⁻¹]

Option 5: Results in **ALL filters** [ms⁻²], [mms⁻¹] and [mm]

Note 1, see Appx A for Velocity and displacement equivalent level limits. Some meter with lesser sensitive transducer may not perform well for low velocity or displacement input levels.

Note 2, where inherent filters are with meters such as ISO 2954 (10Hz to 1000 Hz) or similar, some results may not show such as frequencies >1280 Hz. If the meter has option to use different filters, please advise so. If it is not mentioned, Acu-Vib will action with default filters.

Pricing indication only, may subject to change. Formal quote when requested.

	Ordering Code
Option 1 Acceleration	VM-A
Option 2 Velocity	VM-V
Option 3 Displacement	VM-D
Option 4 Acc + Vel	VM-AV
Option 5 Acc + Vel + Dil	VM-AVD

Please advise ordering code when requesting for quote along with Make and Model of the Vibration meter. Where Datasheet is readily available, please supply this as well.

If there are any price adjustments, it will be reflected in the formal quote.

Appendix A,

Equivalent Input levels for Velocity

Frequency Nominal [Hz]	Applied acceleration level in [mms ⁻¹] Velocity				
	15.9	10.0	20.0	N/A	N/A
40.0	4.00	8.00	20.0	N/A	N/A
80.0	2.00	4.00	10.0	20.0	N/A
159.2	1.00	2.00	5.00	10.00	20.0
320.0	0.50	1.00	2.50	5.00	10.0
640.0	0.25	0.50	1.25	2.50	5.00
1280.1	0.13	0.25	0.63	1.25	2.50

Where necessary due to limited resolution at low displacements, the following alternative frequencies and levels may be used.

Frequency [Hz]	Expected pk-pk[μ m]	Frequency [Hz]	Expected pk-pk[μ m]
15.92	141.43	159.16	14.14
15.92	282.86	159.16	28.28
15.92	565.72	159.16	56.56
39.79	45.25	159.16	141.41
39.79	90.50	159.16	282.82
39.79	226.26	159.16	424.24
39.79	452.52	159.16	565.65
39.79	905.04	318.31	14.14
79.58	11.31	318.31	35.36
79.58	22.63	318.31	70.71
79.58	56.56	318.31	106.07
79.58	113.13	636.63	8.84
79.58	226.26	636.63	17.68
		636.63	26.52



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