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OMS LaserPoint LP01 Laser Doppler Vibrometer



OMS LaserPoint LP01 Laser Vibrometer Specifications

The OMS LaserPoint LP01 Vibrometer is based on a patented electro-optical configuration. The system consists of two components, an optical head and an electronic controller, which are connected by a cable.

The optical head contains a near-infrared laser diode with a built-in high speed photo-detector, an acousto-optic modulator, and a red laser diode to aid in aiming the beam. The controller contains a demodulator, a signal strength indicator, two selectable velocity ranges, and an array of low pass filter options.

Velocity Range

→ 5 $\mu\text{m/s}$ to 800 mm/s^1

Vibration Frequency Range

→ 0.01 Hz to 20 kHz ²

Working Distance

→ 1 cm to 5 m

Displacement Range

→ 0.04 nm (at 20 kHz) to 120 mm (at 1 Hz)

Optics

→ Collimated (No Focusing Needed)

Surface Reflectivity

→ Realistic Surfaces

Signal Output

→ Analog Velocity and 10.7 MHz FM Outputs

Dimensions

→ Laser Head: 24 x 11.4 x 7.6 cm

→ Electronic Controller: 30 x 22 x 6 cm

Weight

→ Laser Head: 1.4 kg

→ Electronic Controller: 3.9 kg

Low Pass Filters

→ 1,2,5,10,20 kHz

Output Voltage (max)

→ ± 10 Volts

Laser

→ 780 nm, <15mW, Class IIIb

→ 650 nm, <1mW, Class II

Power Requirement

→ 100 to 230 VAC at 50/60 Hz

Temperature Range

→ 3 - 45°C

¹ Higher velocities are available with the LaserPoint. Please [contact us](#) for more information.

² Frequencies above 20 kHz can be measured with the LaserPoint. Please [contact us](#) for more information

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