

The Ometron LDV Family Grows

Two additional single-point LDVs join the product range

As the sole worldwide distributor of the renowned Ometron Laser Doppler Vibrometers (LDVs), Brüel & Kjær is proud to add two additional Single-point LDVs to the product range. The LDVs are known for their outstanding accuracy and versatility in applications where it is impossible or undesirable to mount a vibration transducer onto a vibration object.



Low-range Single-point Laser Doppler Vibrometer Type 8333

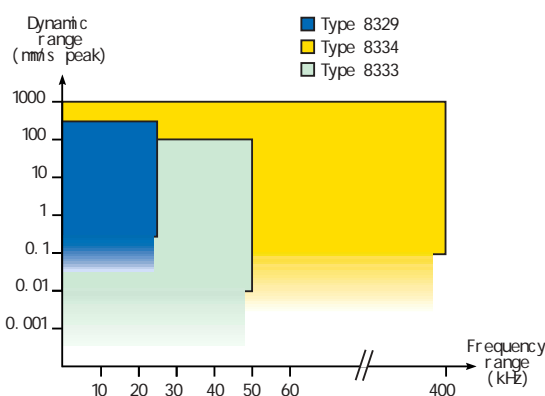
Low-range LDV Type 8333 is a high-quality, non-contact, single-point measurement instrument for the user who demands quick, accurate and reliable vibration measurements at medium, low, or very low velocity ranges. This easy-to-use (point-and-shoot) yet extremely powerful instrument is well-suited for field, laboratory, or industrial use. Weighing a mere 7 kg (15 lb.) and in a unique and all-encompassing one-box design, Type 8333 is easy to transport and set up. It is also possible to set its measurement settings remotely, further adding to its user-friendliness.

High-frequency Laser Doppler Vibrometer Type 8334

Based on the Low-range Laser Doppler Vibrometer Type 8333, High-frequency Laser Doppler Vibrometer Type 8334 is a high-quality, non-contact, single-point measurement instrument that has been developed especially for highly demanding applications where quick, accurate and reliable vibration measurements at frequencies up to 400 kHz are required. Like Type 8333, it is an easy-to-use, high-performance instrument. Also weighing a mere 7 kg (15 lb.), its portable, compact design with integrated optics and electronics, makes it easy to transport and set up. It can operate off AC or DC voltage and like Type 8333, its measurement settings can be set remotely.

Laser Doppler Vibrometer Type 8329

Especially designed for less demanding, general purpose LDV measurements and quality control applications, Type 8329 comes armed with the same unique features as its two siblings – robust, lightweight, small form factor, sophisticated Homodyne interferometry principle, superior optical sensitivity and a high price/performance ratio. With velocity level and focus indications for easy setup, choice of mains or battery operation and a velocity proportional output ready for direct and trouble-free connection to PULSE™ Multi-analyzer, Type 8329 is the ideal instrument for fast assessment of a large variety of vibration problems.



USES

- Non-contact measurement of vibration velocity
- Vibration measurements
 - at extreme temperatures
 - on surfaces submerged in liquid
 - on rotating surfaces
 - on surfaces that are otherwise difficult or impossible to access
 - without mass loading
 - on lightweight, small and delicate structures
 - on soft materials
 - on remote targets
 - on targets behind layers of glass
 - on very small area targets (spot size down to 0.05 mm possible with Type 8333 and Type 8334)
 - on difficult-to-reach targets using fiber optical front-end (optional with Type 8333)
- Impact measurements
- Relative vibration measurements (e.g., on ships, aircraft and cars)

FEATURES

- Velocity range up to 1000 mm/s (Type 8334)
- Frequency range up to 400 kHz (Type 8334)
- Dynamic range up to >80 dB over full bandwidth
- Extremely high optical sensitivity (Types 8333 and 8334)
- Measurements up to 200 m (656 ft) possible without surface treatment or retro-reflective material
- Safe operation (Class II visible HeNe laser light)
- Easy to operate with built-in bar graphs
- Portable, rugged, compact "one-box" design with integrated optics and electronics
- Battery or mains operated
- Connect readily to any Brüel & Kjær sound and vibration analysis system
- Velocity level and focus indications for easy setup
- Remote setting of measurement parameters (Types 8333 and 8334)

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