

Portable Balancing Instrument And Vibration Analyzer

LORD Corporation has announced a new portable balancing instrument and vibration analyzer, the LORD Balance Check. Designed with an intuitive user interface that makes it easy to use by beginners and experts alike, it can be used to detect unbalance, identify the correction capacity required to offset unbalance and verify balance once it is restored. With its flexible instrument platform, the portable tool can be deployed in the field for machinery diagnostics, quality testing on production lines, vibration or FFT analysis, bump (rap) testing and live signal recording. Such flexibility provides users with a single tool capable of providing effective maintenance, inspection and diagnostic solutions for a broad range of services.

Balance Check hardware is based on a high-performance handheld computer. The instrument uses a 400MHz XScale processor, large color display, easy operation function keys and has high-speed data acquisition capabilities through USB, IrDA & RS232. Designed with durability in mind, the rugged Balance Check instrument has IP65 (dust and water) sealing and a two-meter (Mil-Std 810 spec) multiple drop test rating to ensure it withstands the daily abuse associated with an industrial environment. Data integrity is maintained through the internal 64-MB flash memory and external SD/CF/PCMCIA storage.

The protective cover and color screen make the device suitable for indoor and outdoor use.

Capable of high precision static or dynamic reading in one or two planes on fans, impellers or machine tools, the on-screen step-by-step guide to balancing makes the instrument easy to use. The Balance Check can verify general machine health by checking vibration measurements to international standards, as well as provide operator feedback and easy diagnosis of common machinery faults. Other potential uses include bearing analysis to reduce potential downtime, recording of live dynamic signals for complex analysis and logging of static signals such as temperature, gaps and alignment over a period of time.

The Balance Check's modular approach to measurement allows the user to customize the firmware running on the instrument to suit their specific needs. The instrument also provides the option to upload images of actual machinery and transducer measurement positions to ensure valid data collection. Data can also be easily transferred to a PC using Microsoft ActiveSync and can be imported into Microsoft Excel for graphing and accurate reporting.

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