



Application note

ReferenceMate handheld shaker enables fast and easy testing of accelerometers and velocity sensors in the field providing confidence in the entire measurement chain.

Verify entire systems

Meggitt's portable shaker verifies the operation of sensors monitoring vibration levels of rotating industrial machinery including pumps, fans, motors and coolers. Designed for everyday use in harsh industrial environments, the REF2510 industrial kit adds confidence to measurements by providing a constant 1 g peak or RMS acceleration level over 3 user-selectable frequencies. Costly repairs and unplanned shutdowns can be avoided through better informed decisions about machinery operation levels.

Quick troubleshooting

The ReferenceMate enhances the reliability of predictive maintenance and condition monitoring systems. Cable runs from permanently mounted 786A vibration sensors can be terminated into a VibraLink® enclosure. When collecting data from up to 48 sensors, the switchbox's ERROR LED will illuminate if there is a fault in the sensor or cable. After disconnecting the potentially faulty sensor from its permanently mounted cable, the sensor can be mounted on the REF2500. The sensor's performance can be verified using a standard data logger, like the MAC800.

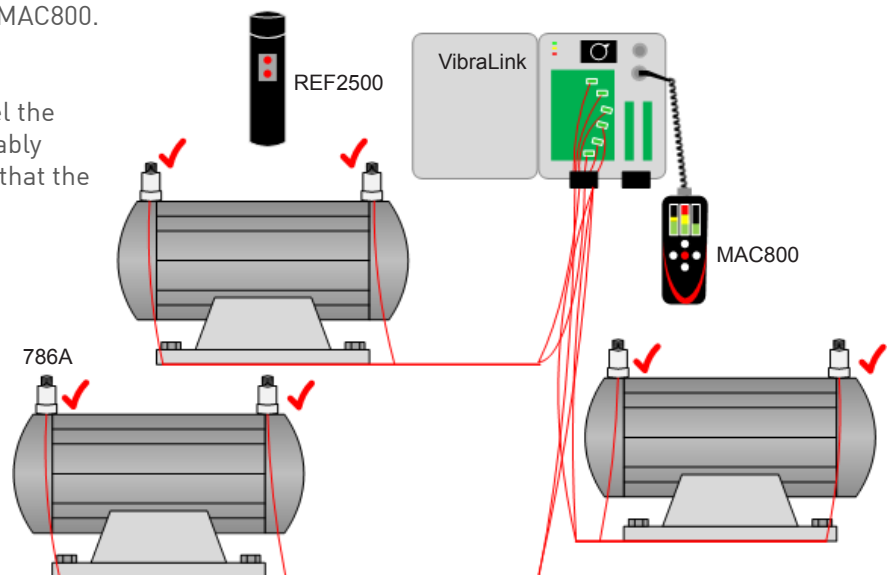
If the reading is incorrect, the sensor may need replacement. If the reading confirms the test level the sensor is fully functional and can continue to reliably monitor machinery. The technician can conclude that the cable is at fault and replace it with a spare.

Rapid system check, minimal downtime

The ReferenceMate is designed for quick field verification of entire monitoring systems including sensor, cable, enclosure and data collector. Sensor calibration or replacement can lead to full-scale plant shutdowns. Machinery downtime can result in lost profit of up to tens of thousands of dollars per hour. The REF2510 kit helps minimize downtime by providing a way to efficiently check sensors, enabling real-time decisions in the field. This simple verification can result in cost savings and increased confidence in the reliability of monitoring systems.

Features

- Rugged and portable: IP54 rated, splashproof
- User friendly: push button operation
- Reliable performance: LED confirmation, overload indicator
- Accuracy: built-in NIST calibrated accelerometer
- Continuous operation: up to 40 hours
- High usability: sensors weighing up to 250 g



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