

# Precision Vibration Meter

## Provides repeatable, severity-scaled readings of machinery vibration and bearing condition

This vibration meter is designed for troubleshooting and maintenance of fans, chillers, cooling tower drives, centrifugal and positive displacement pumps, air compressors, blowers, gear boxes, machine tools, and more. The innovative sensor and sensor tip design helps minimize measurement variations caused by device angle or contact pressure, and aids in providing consistent data quality at both low and high frequency ranges.

- Four-level severity scale assesses urgency of problems for overall vibration and bearing condition
- Overall vibration measurement (10 Hz to 1,000 Hz) for acceleration, velocity, and displacement units of measurement for a wide variety of machines
- Crest Factor+ feature provides reliable bearing assessment using direct sensor tip measurements between 4,000 Hz and 20,000 Hz
- Colored lighting system (green, red) and on-screen comments indicate pressure requirements to take measurements
- Temperature measurement with Spot IR sensor increases diagnostic capabilities
- On-board memory stores and saves up to 3,500 measurements
- Audio output for listening to bearing tones
- External accelerometer support for hard to reach locations
- Flashlight for viewing measurement locations in dark areas
- Large screen with high resolution for easy navigation and viewing
- Export data to Excel with USB connection
- Trend readings with the pre-built Excel templates and plot graphs
- Compare the overall vibration readings to ISO Standards (10816-1, 10816-3, 10816-7)

SPECIFICATIONS	
<b>Vibration meter</b>	
Acceleration UOM	g, m/s <sup>2</sup>
Velocity UOM	in/s, mm/s
Displacement UOM	mils, mm
Low frequency range (overall measurement)	10 to 1000 Hz
High frequency range (CF+ measurement)	4000 to 20,000 Hz
Vibration limit	50 g peak (100 g peak to peak)
Signal to noise ratio	80 dB
Sampling rate	20,000 to 80,000 Hz
<b>Sensor</b>	
Sensitivity	100 mV / g ±10%
Measurement range	0.01 to 50 g
Low frequency range	10 to 1000 Hz
High frequency range	4000 to 20,000 Hz
Resolution	0.01 g
Accuracy	At 100 Hz ±5 % of measured value
<b>Infrared thermometer</b>	
Range	-4 to 392°F (-20 to 200°C)
Accuracy	±4°F (2°C)
<b>Firmware</b>	
External interfaces	USB 2.0 (full speed) communication
Memory	Up to 3500 measurements
Dimensions (L x W x H)	9½" x 2¾" x 2½" (241 x 71 x 58 mm)
Power	Two AA alkaline or lithium-ion 2 VDC



65710-22

What's included: CD-ROM (includes MS Excel template and documentation), quick reference guide, USB cable, belt holster, storage case, and two AA batteries.

Catalog No.	Model No.	Description
TS-65710-22	805	Vibration meter
<b>Accessories</b>		
TS-09386-01	—	Replacement batteries, AA, 4/pk
TS-17111-66	—	<b>NIST-traceable calibration with data</b>