

INTRODUCTION

The Metravi VT-150 Vibration Meter is a reliable and easy to use, hand-held, condition inspection instrument; a fundamental tool of predictive maintenance on the plant floor. It provides vibration measurement, built-in machine alarm indication, bearing status check facility and ambient temperature readings.

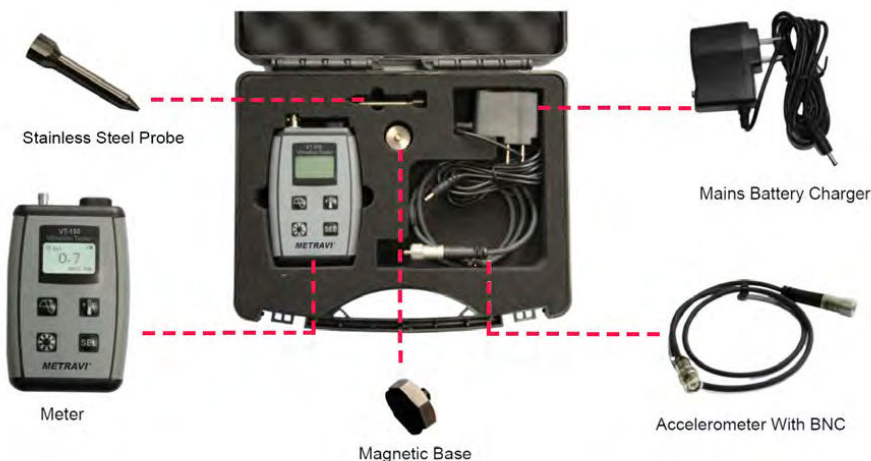
The Metravi VT-150 enables plant maintenance technicians to monitor their machines, find potential problems in advance, to prevent failures & breakdowns and ensure machine reliability.

FEATURES

- Built-in analysis function.
- Analysis results displayed on the screen at the press of a button.
- With ISO standard analysis function.
- Large buttons that are easy to press even with gloves on.
- Practical, easy-to-use vibrometer with diagnosis function.
- Three measurement modes such as acceleration, speed and displacement.

FUNCTIONS

- Velocity in mm/s RMS.
- Acceleration in g RMS.
- Displacement in um Peak-Peak.
- Vibration Evaluation as per ISO10816-3.
- Bg - Hi Frequency Acceleration in g RMS.
- Bv - Hi Frequency Velocity in mm/s RMS.
- Bearing Status Check (by using rules of thumb).
- Non-contact Infrared Temperature in °C or °F with Laser Pointer.



*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATIONS

FUNCTION / FEATURE	SPECIFICATIONS
Display	Monochromatic LCD (128x64 px)
Sensors	IEPE Accelerometer, 100mv/g, Integral 80 cm Cable, BNC Connector
Accuracy	< ±5%
VIBRATION	
Acceleration Range	0-20g, Peak Frequency 10-12kHz
Velocity Range	0-200mm/s RMS, Frequency 10Hz-1kHz
Displacement Range	0-2000µm, Peak-Peak Freq. 10Hz-1kHz
BEARING STATUS	
Bg	0-20 g RMS Freq. Range 1kHz-12 kHz
Bv	0-200 mm/s RMS Freq. Range 1kHz-12 kHz
ALARM INDICATIONS	Vibration Evaluation for velocity measure: ISO10816-3 Bearing status check for BG and BV by rule-of-thumb
TEMPERATURE	
IR Temperature Range	-20°C to 120°C or -5°F to +250°F
Accuracy	±2°C
Resolution	1°C
Laser Guide	Red, <1mW. IEC 60825-1 compliant
Distance to Sighting Ratio	8:1 (Recommend distance range: < 20 cms)
POWER SUPPLY	
Battery	Lithium rechargeable battery, 3.6V 1700 mAh
Recharge Time	3 hours approx.
Operation Time	>50 hours continuous
Mains Charger	AC 100-240 V, 50/60 Hz input; 4.2 V DC 600 mA output
In-Car Charger	DC 12-24V input; 4.2V DC 600mA output
ENVIRONMENT	
Operation Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Ingress Protection	IP64 - Dust-tight and splash-resistant
Electromagnetic Compatibility	2004/108/EC
Dimensions	115 x 75 x 25mm (LxWxH)
Weight	230 gms (including battery)

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