

Model 205M Metric Vibration Meter

Features:

Model 205M (Metric) measures overall vibration amplitude in Metric units in the range of 60 to 420,000 RPMs on rotating machinery. Applications include checking vibration conditions on bearings, motors, fans and pumps. The portable, battery-operated, hand-held Meter features a standard 100 mV/g Accelerometer for measuring vibration Displacement, Velocity and Acceleration. The Meter includes a 1.5 m straight pickup cable and a magnetic base attachment for the Pickup.

Model 205M Metric Kit Includes:

Meter with Battery, Cable and 601 Pickup (shown)
Magnetic Base
Probe Tip
Carrying Case
Manual and Calibration Certificates
"B" Book Guide to Vibration Measurement



Specifications:

AMPLITUDE METER RANGE (METRIC):

Displacement: 0.001 to 1999 micrometer (μm) (peak-peak)
Velocity: 0.001 to 1999 millimeter/second (mm/sec) (peak)
Acceleration: 0.001 to 1999 g's (peak)

VERY LOW RANGE reads directly in:

Displacement: nanometers = $.001\mu\text{m}$ (peak-peak)
Velocity: micrometers per second = $\mu\text{m}/\text{sec}$ (peak)
Acceleration: $.001\text{ g}'\text{s}$ = milli g's (peak)

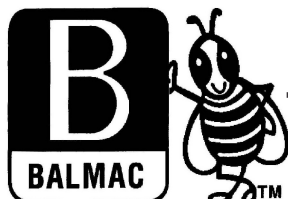
RANGE: 4 selectable with over-range indication

High 2000 = 200 to 1999
Medium 200 = 20.0 to 199.0
Low 20 = 2.00 to 19.00
Very Low Range = 200 to 1999

SENSITIVITY:

Displacement: 0.02 μm
Velocity: 0.02 mm/sec
Acceleration: 0.001 g

ACCURACY: 5% of Full Scale
PICKUP: 601 Pickup
FREQUENCY RESPONSE: 60 to 420,000 rpm (1 to 7000 Hz) using Model 601 Pickup
DISPLAY: 3 1/2 digit, numeric LCD and Low Battery indicator; 3/4" characters
INPUT: Industrial ICP Accelerometer (100 mV/g) Acceleration Range 80 g peak
OUTPUT: Signal for Headphones; 1/8" Mono jack
CONTROLS: Dedicated-function pushbuttons
POWER: 4 Size AA Alkaline batteries
OPERATING TEMPERATURE: 32° to 122°F (0° to 50°C)
ENVIRONMENTAL: Relative humidity 0-95% non-condensing
DIMENSIONS:
Model 205 19 x 10 x 4 cm
Carrying Case 34 x 26 x 11 cm
WEIGHT:
Meter and Accessories 2.3 kilograms
Meter, Pickup and Cable 907 grams



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