

# Model 205 Vibration Meter

## Model 205M Metric Vibration Meter

### Features:

Model 205 Vibration Meter and 205M (Metric) measures overall vibration amplitude in the range of 26 to 300,000 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 5' straight pickup cable and a magnetic base attachment for the Transducer.

### Model 200 Kit Includes:

Meter, Cable and Transducer (shown)  
Magnetic Base Clamp  
Carrying Case  
Manual and Calibration Certificates  
"B" Book Guide to Vibration Measurement  
Vibration Severity Wallet Card



### Specifications:

#### AMPLITUDE METER RANGE:

English: 0.001 to 199 mils (peak-to-peak) Displacement  
0.001 to 199 in/sec (peak) Velocity  
0.001 to 199 g's (peak) Acceleration

Note: Very low Range in units of 0.001 g's, 0.001 in/sec, & micro-inches

Metric: (205M) Displacement micrometers ( $\mu\text{m}$ ) peak-to-peak  
Velocity millimeters-per-second (mm/s) peak

RANGE: Four selectable ranges with over-range indication for each range

	English (Usable)	Metric (Usable)
High	200 = 20.0 to 199.9	2000 = 200 to 1999
Medium	20 = 2.00 to 19.99	200 = 20.0 to 199
Low	2 = .020 to 1.999	20 = 2.00 to 19
VLR	20.0 to 199.9	20.0 to 199.9

Note: Very Low Range in units of 0.001 g's, 0.001 in/sec, & micro-inches

#### SENSITIVITY:

Displacement: 0.000001 inch (0.001 mil) (1 micro-inch)  
(0.0254  $\mu\text{m}$ )

Velocity: 0.001 inch/sec (0.02 mm/sec)

Acceleration: 0.001 g

ACCURACY: 5% of Full Scale

FREQUENCY

RANGE: 26 to 300,000 rpm (0.4 to +5000 Hz) using Model 601 Pickup

DISPLAY: 3 1/2 digit, numeric LCD (with Low Battery indicator); 3/4" characters

INPUT: Industrial ICP Accelerometer (100 mV/g)

OUTPUT: Signal for Headphones; 1/8" Mono jack

CONTROLS: Dedicated-function pushbuttons for all measurements

POWER: 4 Size AA Alkaline batteries

OPERATING TEMPERATURE: 32° to 122°F (0° to 50°C)

ENVIRONMENTAL: Relative humidity 0-95% non-condensing

DIMENSIONS:

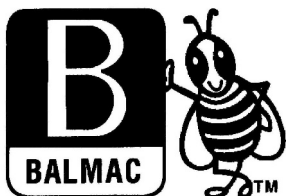
Model 205 7.67" H x 3.97" W x 1.73" D (19 x 10 x 4 cm)

Carrying Case 13.5" H x 10.5" W x 4.5" D (34 x 26 x 11 cm)

WEIGHT:

Unit & standard accessories 5 lbs (2.3 kg)

Unit & pickup 2 lbs (<1 kg)



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