



# Model 200 Vibration Meter

## Model 200M Metric Vibration Meter

### Features:

Model 200 Vibration Meter and 200M (Metric) measures overall vibration amplitude in the range of 180 to 200,000 RPM on rotating machinery. Applications include checking vibration conditions on bearings, motors, fans and pumps. The portable, battery-operated, hand-held Meter features a rugged, heavy-duty pickup for measuring vibration Displacement, Velocity and Acceleration. The Meter includes a 6' coil-cord cable, a 7" probe extension and a magnetic base attachment for the Transducer.

### Model 200 Kit Includes:

Meter, Cable and Transducer (shown)  
 Magnetic Base Clamp  
 7" Probe Tip (1/4-20 Mounting Stud)  
 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: (200M) 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: 180 to +120,000 rpm (3 to +2000 Hz) using Model 158 Pickup

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

INPUT: Balmac Model 158 Vibration Velocity Transducer  
 Optional Pickup Model 160 Transducer for Low Frequency Applications

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

CONTROLS: Dedicated-function pushbuttons for all measurements

POWER: One standard 9-volt alkaline battery

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

ENVIRONMENTAL: Relative humidity 0-95% non-condensing

DIMENSIONS:  
 Model 200 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)