

The MTN/VM220 is a compact, rechargeable, portable handheld Vibration meter designed to conform to ISO10816-3 and operate with a constant current accelerometer providing accurate vibration and temperature measurements. Features comprise of the ability to store up to 100 time-stamped readings, including; RMS, peak, peak-peak, crest factor and bearing conditions all on an easy to read vibrant colour LCD display.

MTN/VM220



Features

- Rechargeable Lithium-ion battery with worldwide charger
- Switchable low pass filter
- User-selectable units
- High performance crisp colour LCD display.
- RMS, peak, peak-peak, crest factor readings in acceleration, velocity or displacement modes
- Bearing condition modes (acceleration and velocity)
- 100 memories can store vibration, temperature and time
- Tough rubberised case
- Adaptive amplifier for high accuracy
- AC output
- Audio output for listening to vibration directly
- Supplied with MTN/2200T probe sensor, others available.

Specifications

Measurement ranges

| | |
|--------------|--------------|
| Acceleration | 200g |
| Velocity | 2000mm/s |
| Displacement | 2000 μ m |
| Temperature | < 100°C |

| | |
|-------|-----------------------------------------------------------------------------------------------------|
| Modes | RMS Peak Peak-peak Crest factor Bearing acceleration Bearing velocity Temperature |
|-------|-----------------------------------------------------------------------------------------------------|

ISO10816-3

- 8 modes for machine classes I, II, III, IV, rigid/fixed foundations
- Visual indication of machine status:

| | |
|--|----------------|
| | Unacceptable |
| | Unsatisfactory |
| | Satisfactory |
| | Good |

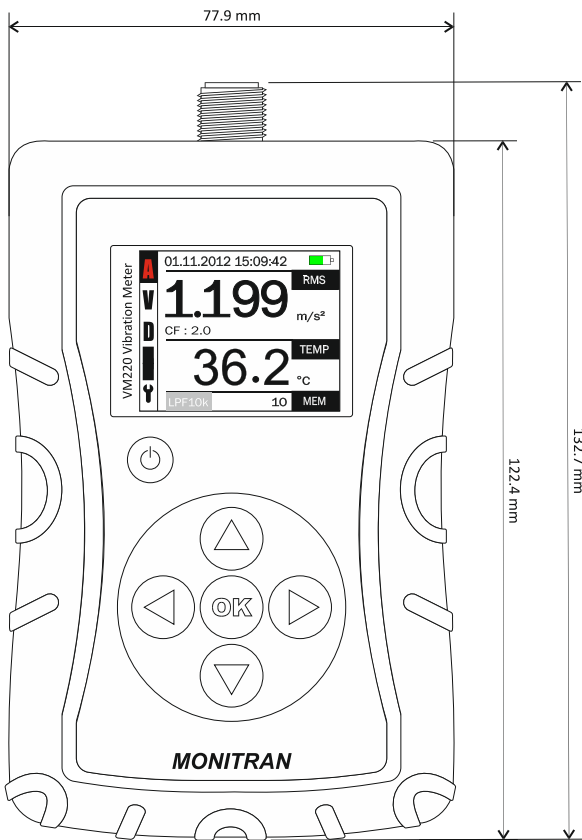
Frequency range

| | |
|------------------|--------------------|
| Low pass filters | 5kHz, 10kHz, 20kHz |
| Band-pass filter | 1-10kHz |

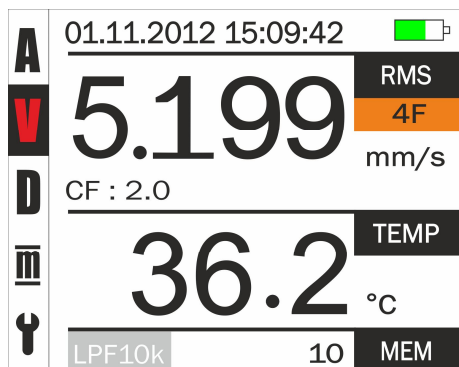
Carrying case



Dimensions



VM220 colour display



Units

| | |
|--------------|-----------------------|
| Acceleration | g, m/sec ² |
| Velocity | mm/sec, in/sec |
| Displacement | µm, mils |
| Temperature | °C, °F |

Display

| | |
|---------------|------------------|
| Type | TFT 16bit colour |
| Resolution | 160 x 128 |
| Viewing angle | 100° |
| Viewable size | 35 x 28mm |

Memory

| | |
|------|---------------------------------------------------------------------|
| Size | 100 slots storing vibration, time, date, temperature, filter, units |
|------|---------------------------------------------------------------------|

Connections

| | |
|----------------------|---------------|
| Power/Data | USB mini-B |
| Headphones/AC signal | 3.5mm stereo |
| Sensor | 4 pin Lumberg |

Environmental

| | |
|-----------------------|------------|
| Operating temperature | 0 to +45°C |
|-----------------------|------------|

| | |
|---------------------|--------------|
| Storage temperature | -20 to +60°C |
|---------------------|--------------|

Power

| | |
|---------|------------------------------------|
| Charger | 100-240V/5V 1A USB with 4 adaptors |
|---------|------------------------------------|

| | |
|---------|-------------|
| Battery | Li-ion 3.7V |
|---------|-------------|

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|--------------|-----------|
| Battery life | >12 hours |
|--------------|-----------|

| | |
|--------------|------------------------------------------------|
| Power status | Battery icon indicates charging, battery level |
|--------------|------------------------------------------------|

Dimensions

| | |
|------------------|-----------------|
| Size (L x W x H) | 133 x 78 x 28mm |
|------------------|-----------------|

Accessories

| | |
|------------|-----------------------------------|
| MTN/VM220 | Vibration meter |
| MTN/2100-X | Probe |
| MTN/MM001 | Magnet |
| MTN/PS002 | 4" ¼"-28UNF Spike |
| MTN/CA476 | Coiled sensor cable |
| MTN/CA477 | USB A to mini USB B cable |
| MTN/BT004 | Worldwide adaptor with 4 adaptors |
| MTN/HE016 | Carry case |
| MTN/HB039 | Handbook |