

## MTN/VC20 VIBRATION CALIBRATOR

### Application

- Rapid and easy calibration of vibration transducers for acceleration, velocity and displacement
- Calibration and fault detection of vibration measuring systems

### Features

- Load independent vibration level for test objects up to 600 grams
- Vibration magnitude of 10 m/s<sup>2</sup> (VC20)
- Quartz controlled vibration frequency of 159.15 Hz (VC20)
- Display shows frequency, magnitude, error in percent and calibration date
- Traceable to national PTB standard, factory calibration certificate included
- Rugged design
- Mains buffered battery operation for laboratory and field use
- Mains plug adapter with wide range input included



### SPECIFICATIONS

|   |  |
|---|--|
| Vibration frequency   | 159.2 Hz   |
| Acceleration (rms)  | 10 m/s <sup>2</sup>  |
| Velocities (rms)<br>at radian frequencies 100s <sup>-1</sup> and 1000s <sup>-1</sup>    | 10 mm/s  |
| Displacements (rms)<br>at radian frequencies 100s <sup>-1</sup> and 1000s <sup>-1</sup> | 10 µm  |
| Maximum weight of test object   | 600 g  |
| Maximum amplitude error   | 3 % (10 - 40 °C / 50 - 100 °F)<br>± 5 % (-10 - 55 °C / 14 - 130 °F)  |
| Maximum frequency error   | ± 0,05 %   |
| Transverse vibration  | < 10 %   |
| Harmonic distortion   | < 1 %  |
| Level indication  | Percent display and piezo beeper   |
| Sensor mounting   | M5 tapped hole (7mm deep), magnet  |
| Operating temperature range   | -10 - 55°C (14 - 130°F)  |
| Accumulator type  | Built-in NiMH battery pack; 7.2 V / 1.6 Ah   |
| Operating time per battery charge   | Approx. 5 hours with 100 g weight  |
| Charge socket   | Circular power connector to DIN 45323 (5.5 mm / 2.2 mm)  |
| Charging time   | Approx. 4 hours  |
| Charge condition indication   | Bar graph display  |
| Charging voltage  | 11 - 18 VDC  |
| Charging current  | < 1 A  |
| Automatic switch off  | 10 Minutes   |
| Dimensions (L x W x H)  | 100 x 100 x 120mm <sup>3</sup>   |
| Weight  | 2.2 kg   |
| Accessories supplied  | Plastic carrying case, mains plug adapter (100 - 240 VAC; 50/60 Hz), thread adapters (M3, M5, M8, 1/4"-28 UNF 10-32) |

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