



iVIBE®

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|------------------------|---|
| Power Portal supply | 12V DC |
| Battery | 6 Volt, 2 AH, Nickel Metal Hydride NiMH |
| Battery life | Typically 10 hours after full charge |
| Weight | 4.4 kg |
| Material | anodized machined aluminium ingot with 3 levelling feet |
| Dimensions | 210 mm diameter octagon, 50 mm deep |
| Operating temperature | -5 °C to 50 °C |
| Power Portal Interface | RS485, 38.4kBaud |
| Protection | IP65 |
| Internal Memory | 4Mb flash |
| Backup Memory | 2GB flash, micro SD card |
| Reporting interval | 1 second to 12 hours |
| Clock | crystal controlled real time clock with battery backup |
| Calibration Interval | 12 months, Turnkey® SCS scheme eligible |

Noise

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|----------------------|---|
| Microphone | Class 1 (with frequency response report) or Class 2 |
| Microphone interface | constant current, 18V phantom power |
| Frequency weighting | db(A) and db(C) simultaneously |
| Time weighting | F or S |
| Dynamic range | 30 dB to 120 dB in single range |
| Measurements | Leq, L10, L90, Lmax, dB histograms |
| Measurement interval | 1 second to 12 hours |
| Design Standards | BS4142, IEC651, BS5228, BS4969 |

Vibration

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|--------------------------------|---|
| Sampling rate | 1000 samples per second |
| Channels | X, Y, Z and vector resultant R |
| PPV range and resolution | 0.01 mm/sec to over 100mm/sec, 0.01mm/sec resolution |
| PPV noise floor (seismic) | ~0.01 mm/ sec |
| PPV noise floor (MEMS) | ~0.5 mm / sec |
| Residual noise (1 Hz, seismic) | 2.0 micro-g, RMS |
| Low frequency -3dB roll off | user selectable 0.2Hz, 0.5 Hz, 1 Hz, 2 Hz, 4 Hz |
| Measurements | PPV XYZR, dominant frequency XYZR RMS XYZR: acceleration, velocity, distance STATIC: X and Y tilt |
| Measurement interval | 1 second to 12 hours |
| Design Standards | BS6472, BS7385, BS6955, DIN4140 |

Product design and development at Turnkey Instruments Ltd is continuous and we reserve the right to make changes to the design and specification of this and other products without prior notice.