



## iVIBE

Power Portal supply	12V DC
Battery	6 Volt, 2 AH, Nickel Metal Hydride NiMh
Battery life	More than 48 hours
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

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

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

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