

Model Number

K333D01-VM

DIGITAL VIBRATION METER KIT

Revision: NR

ECN#:

PERFORMANCE

Acceleration Measurement	
Amplitude	20 g pk (196 m/s ²)
High Pass Filter	2 Hz
Fmax	10 kHz
Averages	4
Lines of Resolution ^[1]	3200
Velocity Measurement	
Amplitude	122 in/s (3100 mm/s)
High Pass Filter	10 Hz
Fmax	1 kHz
Averages	2
Lines of Resolution ^[1]	1600
Demodulation Measurement^[2]	
Amplitude	20 g pk (196 m/s ²)
High Pass Filter	2 kHz
Low Pass Filter	10 kHz
Demodulation Fmax	1 kHz
Averages	2
Lines of Resolution ^[1]	1600
Accuracy	± 3%
Temp. Range ^[3]	14 to 158 F (-10 to 70 C)
Transverse Sensitivity	≤ 5 %
Power Consumption	Less than 45 mA

MECHANICAL - SENSOR

Size – Hex	1.0 in (25.4 mm)
Size – Height	2.6 in (66.0 mm)
Weight	4.62 oz (131 gram)
Mounting Thread	¼-28 UNF (¼-28 UNF)
Mounting Torque	2 ft-lb to 5 ft-lb (2.7 N m to 6.8 N m)
Sensing Element	Piezoelectric Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Electrical Connector	USB Type A Male
Electrical Connection Position	Top
Cable (Integral) Length	9.6 ft (2.9 m)

SYSTEM PROPERTIES

Data Hold	6 measurement points
Display	Smartphone ^[4]
Interface	USB to Smartphone ^[4] , see supplied accessories
Auto Power Off	Smartphone ^[4]
Battery Type	Smartphone ^[4] dependent

MORE INFORMATION

Calibration Certificate	Stored digitally in sensor ^[5]
Manufacturer's Warranty Length	1 year
Special Features	Averaging, preset ISO 10816 vibration severity scale, PDF report generation with images for 6-point test, embedded calibration and sensitivity information, access to advanced vibration monitoring with VibCloud

SYSTEM COMPONENTS^[4]

Digital USB Accelerometer	333D01
Mounting Stud ¼-28	081A40
Curved Surface Mount	080A131
Probe Tip 2 in	080A107
Adapter Cables	
USB to Lightning	MD821AM/A
USB-C to USB 3.0 Female	Anker A8731
Adaptor	
Soft Protective Storage Case	2000X13
VibeCheck App	Free Measurement App

NOTES:

- [1] With use of VibCloud app
- [2] Useful for bearing fault and gear mesh
- [3] Temp spec is for sensor, refer to smartphone temp specs separately
- [4] User supplied smartphone
- [5] NIST traceable

All specifications are at room temperature unless otherwise specified.
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Spec Number:

PS-0173

Date: 2/9/22

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