

PRODUCT INFORMATION

MIL811D Digital Vibration Meter (Accelerometer)

Part Number M81102

The Mechanalysis MIL811D portable digital vibration meter is suitable for most industrial applications with an easy to read digital display. Hand held it measures machinery vibration in terms of displacement (microns), velocity (mm/sec), acceleration (g) Spike Energy™ (gSETM). Its integrated circuit technology provides wide dynamic range and long battery life.

From precision bearing inspection to plant-wide maintenance, the MIL811D has the sensitivity for measuring fractions of a micrometer to 2000 micrometers. Also, the widely acclaimed IRD Spike energy circuit is included. The broadband measurement of Spike Energy (units of gSETM) enables detection and measuring of "bursts" of spike energy at ultrasonic frequencies. Machinery defects developing such as micro spalls, cracks and lack of lubrication can be quickly identified thus preventing unscheduled plant outage.

Standard Accessories	Qty	Part Number
Accelerometer Multi-purpose, model MIL511 - 100 mV/g, 2.0 Hz - 10 kHz, top connector	1	M51100
Cable Assembly for model MIL811D to MIL511 accelerometer sensor - 1.2m (4ft), rubber insulated, shielded	2	M60022
9" Straight Prod (Stinger)	1	M11030
Carrying Case	1	M25346
Battery Set, 2 Nos. of 9V, 100mAH Dry Cells	1	M30642
Manual Operating	1	M43082

Optional Accessories	Part Number
Magnetic Holder for MIL accelerometers	M24746
Shaft Stick for MIL sensors	M24750
Manual Training - Mechanalysis Vibration Technology 1	M51001



SPECIFICATIONS

Measurement Ranges

Displacement:	- 20 microns, 200 microns, 2,000 microns pk-pk
Velocity:	- 20 mm/sec, 200 mm/sec, 2,000 mm/sec pk
Acceleration:	- 20 g, 200 g, 2000 g pk
Spike Energy™ RMS	- 20 gSETM, 200 gSETM, 2000 gSETM
	- Available on request

Frequency Range

Displacement:	- 300 CPM to 24,000 CPM (5 Hz to 400 Hz)
Velocity:	- 300 CPM to 150,000 CPM (5 Hz to 2,500 Hz)
Acceleration:	- 300 CPM to 600,000 CPM (5 Hz to 10,000 Hz)

Accuracy

Instrument:	- 1% of Full Scale Reading (FSR)
-------------	----------------------------------

Input / Output

Input:	- Accelerometer
Output:	- LC Digital Display (3½ Digit)

Power Requirements

Internal Batteries:	- Battery Set, 2 Nos. of 9V, 100mAH Dry Cells
---------------------	---

Environmental

Operating temp:	- 0°C to +55°C
Storage temp:	- -18°C to +60°C

Weight & Dimensions

Instrument only:	- 0.4Kg, 175mm (L) x 80mm (W) x 54mm (H)
Carrying Case:	- 2.0 Kg (inc. meter and standard accessories)

™ Spike Energy and gSE are registered trademark of IRD Mechanalysis Inc.

Mechanalysis (India) Ltd. strives to continue to improve the above specification and retains the right to change them without notice



The Vibration People of Mechanalysis (India) Ltd can be contacted at any one of the following Branches

Mumbai	Delhi	Kolkata	Chennai
Tel: +91(0)22-2852-0178 Fax: +91(0)22-2852-1814 mumsa@mechanalysisindia.com	Tel: +91(0)11-2237-3916 Fax: +91(0)11-2237-0778 delsa@mechanalysisindia.com	Tel: +91(0)33-2355-2062 Fax: +91(0)33-2355-9214 kolsa@mechanalysisindia.com	Tel: +91(0)44-2823-0726 Fax: +91(0)44-2823-4702 chensa@mechanalysisindia.com