

PRODUCT SPECIFICATION

MIL812 High Temperature Vibration Meter (Gas Turbine)

Part Number M81200

The Mechanalysis model MIL812 is a small lightweight and easy to use portable digital vibration meter designed for high temperature portable vibration measurements with special applications to Gas Turbines. The meter has a clear digital auto ranging display. Hand held the meter measures machinery vibration in terms of, velocity (mm/sec) and acceleration (g) in accordance with ISO2372. It also features a built-in transducer integrity check facility.

All functions are available on the front keypad. The MIL566 accelerometer is suitable for measuring up to 500°C with and in line charge amplifier, it offers overall vibration measurement in a harsh environment.



MIL566 High Temp Accelerometer



MIL 812 General View

Standard Accessories	Qty	Part Number
Accelerometer Charge Type model MIL566	1	M566003
Charge Amplifier in line		Integral with MIL566
Sensor Cable Assembly 3m MIL Spec.		Integral with MIL566
Straight Probe	1	M11030
Carrying Case	1	M25348
Battery PP3 type 9V	1	M30642
Manual Operating	1	M81299
Optional Accessories	Qty	Part Number
Manual Training MVT1		M51001



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Signal Input

Instrument -: 100mV/g via BNC socket

Sensor

Type -: Model PZEHT accelerometer.
 Frequency response -: 5Hz to 4.5KHz
 Temp performance -: -55degC to 450degC
 Mounting -: Four hole mount
 Charge Amp -: In line between sensor and meter rated 55degC to 140degC.
 Drift -: At maximum temperature is 10% on the accelerometer.

Display

Instrument -: LCD 3½ digit
 Display Units -: Vibration velocity 0-50mm/s True RMS
 -: Acceleration 0-20g
 -: Bias: Volts

Frequency Range

Velocity: - 300 CPM to 60,000 CPM (10 Hz to 1,000 Hz)
 Acceleration: - 300 CPM to 600,000 CPM (10 Hz to 10,000 Hz)
 Ranges -: Auto ranging

Meter Accuracy

Vibration: - ± 0.1mm/s (± 0.1g)
 -: Bias 5%

Input / Output

Input: - Accelerometer Charge Type with In-Line Charge Amp
 Output: - LCD Digital Display (3½ Digit)

Power Requirements

Internal Batteries: - 1 x PP3 type 9V battery, reverse protected
 Battery Life -: 30 hours, dependent on battery type.
 Indicator on -: Display warns of low battery

Environmental

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

Weight & Dimensions

Instrument only: - 180gms. 125mm x 80mm x 35mm
 Carrying Case: - 1.5kg (inc. meter, standard accessories)

Mechanalysis (India) Ltd. continuously improves products: it therefore retains the right to change the above specification 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