



PRODUCT INFORMATION

MIL111 Digital Sound Level Meter

Part Number M11100

The Mechanalysis model MIL111 Digital Sound Level Meter is suitable for accurately measuring industrial noise for health and safety with A and C Scale weighting. The compact lightweight meter is easy to use with digital level, bar-graph and hold facility. It enables pin point accuracy of acoustic measurements in a noisy environment. It also has an output jack for use with an FFT Vibration analyser for undertaking machinery diagnostics.



| Standard Accessories | Qty | Part Number (P/N) |
|---------------------------------|-----|-------------------|
| Case Carrying | 1 | M25347 |
| Battery 9V, 100mAH Dry Cell | 1 | M30644 |
| Manual - Operating instructions | 1 | M91207 |

| Optional Accessories | Qty | Part Number (P/N) |
|--------------------------------------------------------------------------|-----|-------------------|
| Cable for Sound data transfer to MIL vb Series of FFT vibration analyser | 1 | M91204 |
| Cable for Sound data transfer to dataPAC FFT vibration analyser | 1 | M91202 |
| Tripod (Light weight aluminium) | 1 | M91206 |

SPECIFICATION

| | | |
|---------------------------------------|---|-------------------------------------------------------------|
| Displays | : | 3 digital liquid crystal display & 21 dot Analog Bargraph |
| Mode / Condition Indicators | : | Indicates current mode and status of meter |
| Peak Level Indication | : | Shows when meter reaches maximum level on bar-graph |
| Average or Maximum Sound Level | : | Continuously shows average or maximum sound |
| Data Hold | : | Able to freeze measurement on display |
| Reset Button | : | Clears current reading for next measurement |
| Integrated Averaging | : | Also holds max & min sound levels for a preset period |
| Measurement Ranges Overlapping | : | 50 db to 126 db |
| Range Under & Over | : | Indicates if sound level is out of selected range |
| Microphone | : | Electric Condenser – Output 10k ohm |
| Accuracy | : | ± 2db at 114 db SPL |
| Response | : | Fast and Slow (Digital 0.2 secs, Bargraph 0.5 Secs updates) |
| Reference | : | 0db = 0.0002 Micro Bar |
| Weighting | : | A and C Scale |
| Phono Output Jack | : | Connect output to FFT Vibration Analyser etc |
| Signal Output – Voltage | : | 1 volt Peak-Peak min. Open circuit full scale at 1KHz |
| Signal Output – Impedance | : | 10 kilo ohms min. load |
| Signal Output – Distortion | : | <2% at 1 kHz, 0.5V p-p output |
| Power Requirement | : | Internal battery 9 volt Alkaline |
| Battery Indicator | : | Indicates Low Battery when it needs replacing |
| Tripod Mount | : | Standard internal mounting thread (¼ inch) provided |
| Environmental | : | |
| Operating temp | : | 0°C to +50°C |
| Storage temp | : | 5°C to +65°C |
| Weight | : | 165 g |
| Dimensions | : | 44mm (L) x 64mm (W) x 159mm (H) |

Mechanalysis (India) Ltd. continuously improves products; it therefore retains the right to change the above specification without notice