

Specifications

Events Monitor:

Accumulates the following data for up to 16 separate events:

- 3 separate integrated sound levels.
- 3 separate noise doses.
- 2 time weighted averages and a sound exposure level.
- Peak level, maximum level, start time, and run time.

The M-27 as an overall unit accumulates data for:

- 3 separate dosimeters.
- 3 separate 1 minute time histograms.
- 2 separate percent time statistical distributions.
- 2 separate percent dose distributions.
- 16 separate events.
- Sound levels, peaks and maximum levels.
- Run time, pause time, and elapsed or real time.

The unit displays:

- Sound level, peak level, maximum level.
- 2 integrated average levels.
- An equivalent sound level.
- 3 percent doses.
- 2 time weighted averages.
- A sound exposure level.
- 16 separate events.
- Run time, pause time, and upper limit time (the time greater than preset level).
- Elapsed or real time clock (12 or 24 hour).
- Calibration level.
- Code of 24 internal switch settings.

The unit prints out:

- A heading.
- Summary of accumulated data and setup parameters.
- Up to 16 separate events.
- 3 separate 1-, 3-, 5-, or 10-minute time histograms.
- 2 percent time statistical distributions.
- 2 percent dose statistical distributions.
- Raw data for computer storage and manipulations.
- Includes editing capability to print out only required data.

The M-27 internal switches select:

- Exchange rates of 3, 4, 5, or 6 dB.
- Criterion levels of 80, 84, 85, or 90 dB.
- 2 thresholds of none, 70, 75, 80, 85, or 90 dB.
- 2 ranges of 35-126 or 50-146 dB.

- "A" or "C" frequency weighting.
- Fast or slow time constant.
- Upper limits of 90, 115, or 140 dB.
- 12 or 24 hour clocks.
- 8 different unit numbers.
- Text, graph, or both printouts.
- Serial or parallel printers.
- Baud rates of 300, 600, 1200, or 2400.
- Line feed, carriage return, or both.

The above features, packaged in a compact, rugged, hand-size, easy-to-use instrument, make the QUEST M-27 Noise Logging Dosimeter the "Ultimate" dosimeter.

STANDARDS:	ANSI S1.4-1983 type 2 ANSI S1.25-1978 IEC 651 type 2
UL Intrinsic Safety:	Class I Group C, D Class II Group E, F Class III
Detector:	True RMS; 63 dB pulse range
Display:	Liquid crystal display Range: .01 to 2999 Annunciators: HTL, LTL, 3 dB, LOBAT, RUN, and PAUSE
Printout:	RS-232 serial at 300, 600, 1200, or 2400 baud or Centronics parallel Connector: 20 pin shrouded header
Microphone:	8 mm PZT ceramic, 36-inch cable, field replaceable
Battery:	Single 9-volt alkaline, 80-hour battery life
Battery Indicator:	8-hour battery life, 1 week data retention
Calibrator:	External calibrator
Temperature:	-15° to 50 °C operating; -40° to 60 °C storage (battery removed)
Humidity:	0 to 95% non-condensing
Magnetic Field Effects:	Negligible below 50 Oersteds at 50 to 60 Hz
Size:	5½ x 2¾ x 13/8 inches(140 x 70 x 40 mm)
Weight:	14 ounces (400 grams)
Construction:	Cast aluminum housing with tamper-, water-, and dust-resistant security cover