

## Convertible Noise Dosimeter/Sound Level Meter

These "Convertible" dosimeters and sound level meters offer the ability to make noise measurements in many different environments. The units are called "Convertible" because the user can turn a dosimeter into a sound level meter and back again, simply by inserting a different microphone. This provides the most flexibility in a single unit and reduces the cost for the user.

In dosimeter mode, instruments are delivered pre-programmed with the operating parameters to measure noise dose to the relevant standards (ie OSHA), and measure from 30 to 140 dB in three 70 dB ranges. Whilst the CEL1001/2 provides summary statistics for download, the CEL-1004 stores individual readings to provide a full time history.

In sound level meter mode, instruments possess up to 20 configurable operating modes, which can be user programmed to suit any specific task. Simply selecting the mode and pressing "run" starts the measurement and displays current information. Download all the data to the PC for subsequent analysis.

Both models are suitable for workplace noise monitoring, simple handheld noise surveys and long term boundary monitoring. They are rugged, lightweight, easy to use and conform to both ANSI and IEC standards.



Catalog No.	Description
CEL1001	Dosimeter with calibrator, wind screen & carrying case
CEL1002	Same as above with software and download cable
CEL1004	Logging dosimeter with calibrator, wind screen, carrying case, software and download cable
CEL1006	Microphone to convert to sound level meter
NISTSD4	NIST Traceable Certificate with Data

### SPECIFICATIONS

Standards	IEC 1252, 651, 804 ANSI S1.4, S1.25 EN 50081-1, 50081-2, 50082-1, 50082-2
Measurement Range	30 - 140 (in 70 dB ranges)
Microphone	Electret, on 0.8m cable, Type 2 (dosimeter) Electret, 75mm stalk, Type 2 (SLM)
Battery	9 volt, Alkaline
Operating life	Approx. 40 hours
Measurement runs	50
Threshold levels	2 (70 - 90 dB in 1 dB steps)
Frequency weightings	A, C, linear 20 Hz - 20 kHz
Time weightings	Fast, Slow, Impulse, Peak
Amplitude weightings	3, 4, 5, 6 dB exchange rates
Displayed information	Lp, LAeq, LAE, Leq, Lav, Lmx, Lmn, Lpeak, %Dose1 & 2 (actual & projected), TWA, LEPd, TWAv, LEPv, Duration, Date, Time, Run #, Wait, Pause, Battery state
Dimensions (excl mic)	4.8 x 2.6 x 1.2 in
Weight	11 oz.
<b>Data Storage (CEL1004 only)</b>	
Memory size	>200,000 data points
Profiles per period	10 (max)
Profile intervals	1 sec to 60 min
Fixed duration timers	5 min to 24 hours