

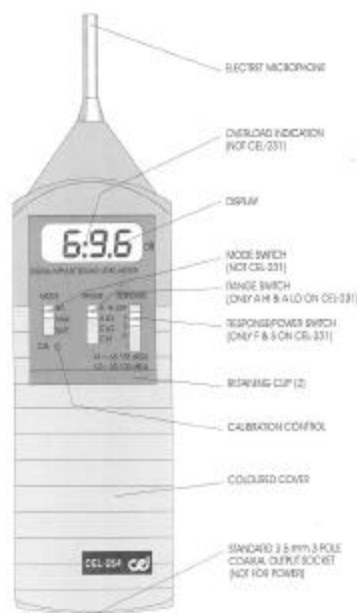
# FIELD Environmental Instruments

Equipment Rental and Field Supplies

## CEL-254 Digital Impulse Sound Level Meter

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Toll-Free  
**800-393-4009**



The CEL-254 Digital Impulse Sound Level Meter is designed for Industrial Safety Officers.

The CEL-254 satisfies the requirements of the international and national IEC 651 Type 2, BS EN 60651:1994 Type 2, and ANSI S1.4 Type 2A Standards for both free field and random incidence sound level meters. The CEL-254 also satisfies the requirements of IEC 651 Type 2 for impulse sound level meters.

The instrument provides a clear and unambiguous digital indication of the A-weighted sound level on an easily read display. The feature the standard Fast and Slow time weightings, and can measure sound levels between 30dB(A) and 135 dB(A) in two ranges, at frequencies between 10Hz and 20kHz.

In addition, the CEL-254 can indicate C-weighted sound levels and overload conditions, includes a standard impulse time weighting with reset function, indicates battery voltage on the display, and has a maximum hold function that operates with all time constants.

## SPECIFICATIONS

**Dynamic Range:** 70dB

**Typical Instrument Frequency range:** (within +0.5 to -3dB)  
(better than 10Hz to 25kHz in all ranges)

**Accuracy:** (under reference conditions)  $\pm$ dB

**Time Weightings:**

F (fast) 125 milliseconds  
S (slow) 1 second  
I (impulse) 35 millisecond rise time, 1.5 sec  
decay time, with quick reset  
MAX: Holds noise readings of F,S, &I  
with decay <1 dB/5 minutes at  
temperatures <40°C

**Dimensions:** 258 x 70 x 21mm, (10 x 2.75 x 0.85 inches)

**Weight:** 200g, (0.45lb) excluding batteries

### CEL-254 Measurement Ranges

Range Setting	Frequency Weighting	Display Range	Primary Linearity Range IEC 651
A LO (low)	A	30-100dB	30-86dB
A HI (high)	A	65-135dB	65-121dB
C LO (low)	C	35-100dB	35-86dB
C HI (high)	C	65-135dB	65-121dB

\*Note that the lower reading is quoted at +10dB on noise floor. Upper reading allows crest factor 5.

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