



**Sound Level Meters**

Extech sound meters include all the features/functions needed for basic noise level surveys or to meet the requirements for OSHA compliance, community noise ordinances or machine noise evaluation.

**Featuring Model 407732-KIT**



**Special Value Kit**

- ▶ **Type 2 Precision**  
Meets ANSI and IEC standards to conform to OSHA guidelines
- ▶ **Sound Level Calibrator**  
Verifies Sound Meter calibration (94/114dB) before & after use
- ▶ **Hard Carrying Case**  
Conveniently stores and protects your meter

**Accessories**

TR100 ....Tripod (for meters with Tripod mount feature)  
40705X...AC/DC Recorder Output Cable

**Order Meter with NIST Certificate\***

All Extech meters come factory calibrated. For an additional charge, Extech will supply your meter complete with a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. **To order meter with NIST:**

- 407703A-NIST
- 407730-NIST
- 407732-NIST
- 407732-KIT-NIST
- 407736-NIST
- 407750-NIST
- 407744-NIST
- 407766-NIST

\*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.

**Specifications**

Model	407703A	407730
Range	54 to 126dB	40 to 130dB
Basic Accuracy	±2dB	±2dB
Weighting (A&C)	Yes	Yes
Response Time (Fast/Slow)	Yes	Yes
Condenser Microphone	0.5" (12.7mm)	0.5" (12.7mm)
Analog Output	AC	AC
Dimensions	7.1x2.7x1.4" (180x68x36mm)	9x2.2x1.7" (230x57x44mm)
Weight	5.1oz (145g)	5.6oz (160g)
CE	Yes	Yes
Warranty	1 year	1 year



**407703A Analog Sound Level Meter**

Check noise level economically

- Easy to read analog display
- MAX Hold
- Battery check
- Analog AC output for connection to chart recorders and dataloggers
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with 9V battery



**407730 Digital Sound Level Meter**

Analog bargraph with 30dB range updates every 40ms

- ±2dB accuracy with 0.1dB resolution
- AC analog output
- Record MAX/MIN values over time
- Auto power off and MAX Hold functions
- Utilizes 0.5" (12.7mm) condenser microphone
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind cover and four AAA batteries



✓  
**407732-KIT Value Kit**



Optional 407732-KIT comes complete with a sound calibrator and case

### 407732 Type 2 Sound Meter

Two range meter with backlit LCD display

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High & Low measuring ranges
- Data Hold and MAX Hold functions
- Backlit display to view in dimly lit area
- Complete with microphone wind cover and 9V battery
- Optional 407732-NISTL includes Certificate of Traceability to NIST at single point calibration to 94dB
- Optional 407732-KIT includes 407732 Sound Meter, 407722 94dB Sound Calibrator, and protective hard carrying case  
*(Optional NIST available for kit: 407732-KIT-NIST includes 407732-NISTL and 407722-NIST)*

### 407736 Type 2 Sound Meter with Calibration Check

High accuracy Type 2 meter

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High and Low measuring ranges
- MAX Hold with reset button
- Built-in calibration check (94dB)
- Analog AC/DC outputs for connection to an analyzer or recorder
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Optional 407744 or 407766 Sound Calibrator
- Complete with microphone wind cover, 9V battery, and carrying case



Optional software

### 407750 Sound Level Meter with PC Interface

Big backlit display, PC interface & background sound absorber

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Background noise absorber for noise measurements with high ambient noise levels
- RS-232 interface for capturing data to PC, optional Windows® 95/98/NT/2000/ ME/XP compatible software (407752)
- Large backlit display with analog bargraph
- Auto/Manual ranging and MIN/MAX readings
- Analog AC/DC outputs for connection to a recorder
- Tripod mount (optional TR100 Tripod — sold separately)
- Complete with microphone wind cover, 9V battery and case

### Sound Level Calibrators

407766  
(94dB/114dB)



407744  
(94dB)

- Calibrate and verify Sound Level Meter operation
- 1kHz sine wave at 94dB/114dB (407766) or 94dB (407744) is generated to an accuracy of ±5% (frequency) and ±0.5dB (94dB); ±0.8dB (114dB)
- Accommodate both 0.5" to 1.0" microphones
- For use with all of Extech's Sound Level Meters
- Includes screwdriver, two 9V batteries, and carrying case

407732	407732-NISTL	407732-KIT	407736	407750	Model Range
Low: 35 to 100dB			Low: 35 to 90dB	30 to 130dB	
High: 65 to 130dB			High: 75 to 130dB		
±1.5dB (Type 2)			±1.5dB (Type 2)	±1.5dB (Type 2)	Basic Accuracy
Yes			Yes	Yes	Weighting (A&C)
Yes			Yes	Yes	Response Time (Fast/Slow)
0.5" (12.7mm)			0.5" (12.7mm)	0.5" (12.7mm)	Condenser Microphone
—			AC/DC	AC/DC	Analog Output
8.2x2.1x1.25" (210x55x32mm)			9.5x2.7x1" (241x69x25mm)	10x3.1x1.5" (256x80x38mm)	Dimensions
8.1oz (230g)			7.6oz (215g)	8.5oz (240g)	Weight
Yes			Yes	Yes	CE
1 year			1 year	1 year	Warranty



# Sound Level Meters and Dataloggers



## Sound Level Meters & Dataloggers

Extech's Sound Level Meters with PC interface are Type 2 meters with the added capability to store data directly into internal memory or to a computer.

## Featuring Model HD600

### Type 2 Precision

Meets new IEC 61672-1 accuracy standard for OSHA and other local and national noise ordinances

### Built-in Datalogger

Stores up to 20,000 records with real date and time stamp

### USB Interface

For downloading, storing and documenting test results to a PC. Records up to 10 readings/second when dB recording directly to a PC



TR100



407764-EXT

## Accessories

### Calibrators

- 407744 .....94dB Sound Calibrator (0.5", 1" microphones)
- 407744-NIST..407744 with NIST Certificate
- 407766 .....94/114dB Sound Calibrator (0.5", 1" microphones)
- 407766-NIST..407766 with NIST Certificate

### Tripod

- TR100 .....Tripod (for meters with Tripod mount feature)

### Cables & Software

- 40705X.....AC/DC Recorder Output Cable (3ft/0.9m)
- 407764-EXT ...15ft (4.7m) Microphone Extension Cable
- USB100.....RS-232 to USB adaptor

### AC Adaptors for 407764, 407780, 407790

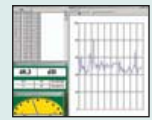
- 144118 .....110 VAC Adaptor
- 144220 .....220 VAC adaptor
- 144240 .....240 VAC adaptor

## Order Meter with NIST Certificate\*

All Extech meters come factory calibrated. For an additional charge, Extech will provide a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. **To order meter with NIST:**

- 407768-NIST
- HD600-NIST
- 407764-NIST
- 407780-NIST

\*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.



Software included

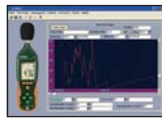
## 407768 Sound Level Meter with PC Interface

Includes Windows® compatible software

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 61672 Class 2, EN 60651)
- Auto/Manual ranging
- MIN/MAX and Max Hold
- RS-232 interface for capturing data directly on a PC
- Analog AC output for connection to a recorder
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Complete with 9V battery, Windows® 95/98/NT/2000/XP compatible software, Serial cable, and carrying case

## Specifications

Model	407768
Range	30 to 130dB
Basic Accuracy	±1.4dB
Weighting (A & C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7mm)
Analog Output	AC
PC Interface	Included
Datalogging	—
Dimensions/Weight	10.6x2.7x1.1" (268x68x29mm)/10oz (284g)
CE	Yes
Warranty	1 year



Software included

### HD600 20,000 Point Datalogging Sound Level Meter

Double Molded housing with USB port

- 1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Capture up to 10 readings/sec when connected to a PC
- Datalogging capability up to 20,000 records at speeds from 1/sec to 1/59sec
- Records readings with real date and time stamp
- MIN/MAX and Data Hold
- USB port includes PC software
- Tripod included for convenient field use
- Auto power off with disable capability
- Complete with AC Adaptor, Windows® compatible software with USB cable, wind cover, tripod, built-in stand, hard carrying case, and 9V battery

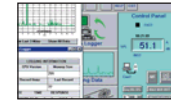


Software included

### 407764 128,000 point Datalogging Sound Level Meter

Type 2 meter with datalogging memory plus PC interface

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Large LCD with bargraph display
- Stored data can be transferred to a PC via RS-232 interface
- Real time and Date are logged with data; MAX Hold function
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Optional 15ft (4.7m) microphone extension cable 407764-EXT for measurements in enclosures and other remote locations
- Complete with microphone wind cover, Windows® compatible software, Serial cable, 4 AA batteries, and case (Optional AC Adaptor - see page 114)



Software included

### 407780 Integrating Sound Level Datalogger

Leq and SEL measurements with built-in datalogger and PC interface

- Meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Datalogging function records up to 32,000 records
- Programmable integrating time; Real time calendar/clock
- Linearity over wide range (100dB)
- Display modes: SPL, SEL, Lmax/Lmin, Leq
- Impulse/Fast/Slow response time
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Complete with RS-232 cable, 9 to 25 pin gender changer, Windows® 95/98/NT/2000/ME/XP compatible software, microphone wind cover, 4 AA batteries and carrying case; (Optional AC adaptor)

HD600	407764	407780
30 to 130dB	30 to 130dB	30 to 130dB
±1.4dB	±1.5dB	±1.5dB
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Detachable 0.5" (12.7mm)
AC/DC	AC/DC	AC/DC
USB	Included	Included
20,000 Records	128,000 Records	32,000 Records
10.9x3x2" (278x76x50mm)/12.3oz (350g)	10.4x2.8x0.8" (265x72x21mm)/11.5oz (358g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
Yes	Yes	Yes
1 year	✓3 years	1 year





# Sound Level Datalogger and Monitor


## 407760 USB Sound Level Datalogger **NEW**

High accuracy datalogging of up to 129,920 records


### Features:

- Designed to meet ANSI and IEC 61672 Class 2 standards
- USB interface for easy setup and data download
- Selectable data sampling rate
- Records readings with real time clock
- Two start methods: programmed (from PC) or manual
- Includes 3.6V Lithium battery, Windows® compatible software, USB cover, tripod, and windscreen






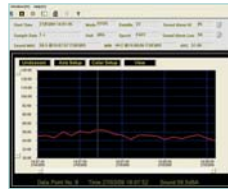
USB connector plugs into PC for quick downloading of Sound Level datalogged readings.



Record LED lights up when meter starts recording data. Alarm LED lights up when sound level exceeds the High or Low set point.



Tripod included for convenient positioning of the meter and for continuous data recording.



Includes PC software for further analysis of downloaded data

Specifications	Functions	
	Condenser Microphone	0.5" (12.7mm)
	Range	30 to 130dB
	Frequency Range	31.5 to 8kHz
	Basic accuracy	±1.4dB
	Weighting	A and C
	Response Time	Fast (125ms)/Slow (1s)
	Datalogging	129,920 points
	PC Interface	USB
	Dimensions/ Weight	5.1 x 1.1 x 0.9" (130 x 30 x 25mm)/ 1oz (20g)

### Ordering

- 407760 .....USB Sound Level Datalogger
- 407760-NISTL.407760 with NIST Certificate (single point)
- 42299.....3.6V Lithium Battery (pkg of 2)

## SL130G Sound Level Alert with Alarm

Continuous monitoring of Sound Level — Built-in LEDs alert user when sound level is too high or too low

### Features:

- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 30m (100ft)
- Continuous Monitoring of Sound Level
- Ideal for hospital, auditoriums, schools and other areas where there is a need for being alerted when sound level reaches set point
- Meets ANSI Type 2 and EN IEC 60651 standards — compliant to OSHA
- Wall, desk or tripod mount (optional TR100 tripod — sold separately)
- Settable high/low limit indication with output to drive external relay module (Optional SL123 & SL124 relay modules)
- Microphone rotates 180° for desired placement. Optional 15ft (5m) microphone extension cable (SL125) for remote monitoring
- Complete with AC adaptor and microphone wind cover



Specifications	Display	
	4.6 x 3.125" (117x79mm) multifunction LCD	
	Frequency bandwidth	31.5 Hz to 8 kHz
	Microphone	0.5" Electret Condenser Microphone (remotable)
	Measurement ranges	30 to 80dB, 60 to 110dB, 80 to 130dB
	Frequency weighting	'A' and 'C' (Programmable)
	Response time	Fast (125ms) / Slow (1s) (Programmable)
	Resolution	0.1dB
	Alarm output	3.5mm Mono Phone Plug, Maximum: 3.4mA @ 5 VDC
	Minimum Output	Voltage: 2.5 VDC
	Power	AC/DC Adaptor for full functions; 8xAA batteries for monitoring function only without LED alert
	CE/Warranty	CE approved/ 1 year warranty
	Dimensions / Weight	8.75x7.1x1.25" / 0.63 lbs. (22x18x3.2cm / 285g)

### Ordering

- SL130G .....Sound Level Alert (with 110V adaptor)
- SL130G-NIST ..SL130G with NIST Certificate
- SL130-220 .....Sound Level Alert (with 220V adaptor)
- SL130-240.....Sound Level Alert (with 240V adaptor)
- Accessories**
- SL123 .....AC Alarm Relay Module 9 foot cable (3m)
- SL124 .....DC Alarm Relay Module 9 foot cable (3m)
- SL125 .....Remote Microphone cable 15'
- TR100 .....Tripod (for meters with Tripod mount feature)
- 407766 .....Sound Level Calibrator, 94/114dB

## 407790 Real Time 1/3 Octave Band Analyzer

Type 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display

### Features:

- 160x160 dot matrix backlit LCD
- Memory stores 12,280 records in SLM mode and 1024 points in 1/1 or 1/3 octave mode
- Stored data can be transferred to a PC and analyzed using software and cable provided
- A, C, Flat weighting; Fast/Slow response time
- Detachable 0.52" (13.2mm) diameter condenser microphone and Tripod mount
- Real time clock with Year, Month, Day, Hour, Minute, and Second display
- Maintain noise level statistics for internal and external audits

<b>Specifications</b>	<b>Applicable standards</b>	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
	<b>Accuracy</b>	±1.5dB (ref 94dB @ 1kHz)
	<b>Measurement range / function</b>	30dB to 130dB / La, Lc, Lp, Leq, LE, Lmax, Lmin
	<b>Frequency range</b>	25Hz ~ 10kHz
	<b>Sound level meter display</b>	Integrating SLM: Digital, 4 Digits with Bargraph
	<b>Real Time Analyzer display</b>	Graphical, Bargraph with cursor
	<b>1/1- 1/3 Analyzer level range</b>	30 to 130dB
	<b>1/1 Octave and 1/3 Octave</b>	1/1 Octave band center frequencies: (9 bands); 1/3 Octave band center frequencies: (27 bands);
	<b>Signal output</b>	AC output: 2 Vrms (at full scale); DC output: 10mVDC/dB
	<b>Power</b>	Four type C size 1.5V batteries, External DC power: 6V, 1A
<b>Safety/Warranty</b>	CE approved, one year warranty	
<b>Dimensions/Weight</b>	13.6x3.9x2.4" (345x100x60mm)/ 33.5oz (950g)	

### Ordering

- 407790.....Octave Band Sound Analyzer
- 407790-NIST.....407790 with NIST Certificate
- 407764-EXT.....15ft (4.7m) Microphone Extension Cable
- 407744.....94dB Sound Level Calibrator (see page 113)
- 407766.....94/114dB Sound Level Calibrator (see page 113)
- USB100.....RS-232 to USB Adaptor



Complete with Windows® 95/98/NT/2000/ME compatible software, Serial cable, 4 x C batteries, mini screwdriver, 120V AC adaptor, and case. See page 114 for 220-240V Adaptors



## 407355 Personal Noise Dosimeter Datalogger

Measure total sound exposure over an 8-hour period

### Features:

- Perform OSHA and IEC Noise accumulation surveys
- Adjustable Criterion Level, Exchange Rate, and Threshold
- Optional 94/114dB calibrator to perform "before" and "after" calibration checks
- Ideal for personal/workplace accumulated noise exposure
- Bi-directional RS-232 with Windows® 95/98/NT/2000/ ME/XP compatible software to control setup and retrieve stored events or analyze real time measurements. Software lists and graphs functions. Complete with 9 pin to 25 pin adaptor and RS-232 cable
- Datalogs up to 4500dB readings when used as a sound level meter
- Stores up to 5 dosimeter surveys. Data includes Start/Stop Time, %Dose, TWA, Peak flags, when used in the Dosimeter mode
- Complete with belt clip, clip-on 0.5" microphone with 2.6ft (0.8m) cable, software, 4 AAA batteries, mini screwdriver and carrying case
- Available kit 407355-KIT-5 includes five 407355 Dosimeters, 407766 Sound level calibrator, and carrying case



407355-KIT-5 — Dosimeter Kit



Includes software

<b>Specifications</b>	<b>Standards</b>	Meets ANSI S1.25 (1991) Type 2, ISO-1999, BS 402 (1983)
	<b>Range/Resolution</b>	70 to 140dBA / 0.1dB (Frequency A Weighting)
	<b>Digital Display</b>	LCD 0.01-9999%
	<b>Criterion/Threshold Level</b>	80, 84, 85 or 90dB/ 70-90 (1db steps)
	<b>Response Rate/Exchange Rate</b>	Fast or Slow/ 3, 4, 5 or 6 dB
	<b>High Level Detector/Peak Flag</b>	115dB / 140dB
	<b>Battery Life</b>	34 hrs
	<b>Event Storage</b>	5 surveys
	<b>CE/Warranty</b>	CE approved, one year warranty
	<b>Dimensions/Weight</b>	4.2x2.5x1.3" (106x64x34mm)/ 8oz (227g) incl. batteries

### Ordering

- 407355.....Noise Dosimeter/Datalogger
- 407355-NIST...407355 with NIST Certificate
- 407355-KIT-5 ..Noise Dosimeter/Datalogger Kit
- 407744.....94dB Sound Level Calibrator (see page 113)
- 407766.....94/114dB Sound Level Calibrator (see page 113)
- USB100.....RS-232 to USB Adaptor