

## Unrivalled Selection

No one offers a better selection of sound level meters than Extech. With models for every application, capabilities include Type 2 compliance, calibration traceable to N.I.S.T., PC connectivity, datalogging, octave band analyzer, ultra compact and wall-mounted designs, and personal dosimeters.

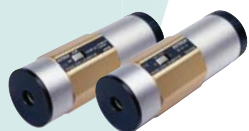


### ACCESSORIES

TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable
407744 <span>N</span>	94dB Sound Calibrator (0.5", 1" microphones)
407766 <span>N</span>	94/114dB Sound Calibrator (0.5", 1" microphones)

### Sound Level Calibrators

- Calibrate and verify Sound Meter operation
- 1kHz sine wave at 94dB/114dB (407766) or 94dB (407744) is generated to an accuracy of  $\pm 5\%$  (frequency) and  $\pm 0.5\text{dB}$  (94dB);  $\pm 0.8\text{dB}$  (114dB)
- For use with both 0.5" to 1.0" microphones
- For use with all Extech Sound Level Meters
- Includes screwdriver, batteries, and case



## 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

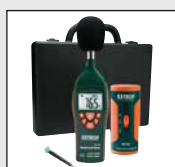


## 407730 Digital Sound Level Meter

Analog bargraph with 30dB range updates every 40ms

- $\pm 2\text{dB}$  accuracy with 0.1dB resolution
- Analog AC output for connection to chart recorders and dataloggers
- 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 screen and four AAA batteries

SPECIFICATIONS	407703A <span>N</span>	407730 <span>N</span>
Range	54 to 126dB	40 to 130dB
Basic Accuracy	$\pm 2\text{dB}$	$\pm 2\text{dB}$
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
CE approved	Yes	Yes
Dimensions	7.1x2.7x1.4" (180x68x36mm)	9x2.2x1.7" (230x57x44mm)
Weight	5.1oz (145g)	5.6oz (160g)
Warranty	1 year	1 year



Optional 407732-KIT

## 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 screen and 9V battery
- Optional 407732-NISTL includes Certificate of Calibration Traceable to NIST at single point calibration to 94dB
- **Model 407732-KIT** includes 407732 Sound Meter, 407722 94dB Sound Calibrator, and protective hard carrying case (Optional NIST traceable certificate available for kit: 407732-KIT-NISTL includes 407732-NISTL and 407722-NISTL) - see p. 144 for ordering info



## 407736 Type 2 Sound Meter with Calibration Check

Two range meter with analog outputs

- 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 screen, 9V battery, and carrying case



## 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
- PC interface for capturing data to PC, optional Windows® 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 screen, 9V battery and case

### ■ 407732 N | ▲ 407732-KIT N

Low: 35 to 100dB, High: 65 to 130dB
±1.5dB (Type 2)
Yes
Yes
0.5" (12.7mm)
—
Yes
Meter: 8.2x2.1x1.25" (210x55x32mm)
Meter: 8.1oz (230g)
1 year

### 407736 N

Low: 35 to 90dB; High: 75 to 130dB
±1.5dB (Type 2)
Yes
Yes
0.5" (12.7mm)
AC/DC
Yes
Meter: 9.5x2.7x1" (241x69x25mm)
Meter: 7.6oz (215g)
1 year

### 407750 N

30 to 130dB
±1.5dB (Type 2)
Yes
Yes
0.5" (12.7mm)
AC/DC
Yes
Meter: 10x3.1x1.5" (256x80x38mm)
Meter: 8.5oz (240g)
1 year

### SPECIFICATIONS

Range
Basic Accuracy
Weighting (A&C)
Response Time (Fast/Slow)
Condenser Microphone
Analog Output
CE approved
Dimensions
Weight
Warranty

## Sound Investment for University

*"We switched to Extech because of the price and the availability of many different models. I use the sound meter to measure ambient noise in our college's laboratories. I like the quality of the meter and its documentation. Extech offers a large line of products and the prices are reasonable."*

Abdie T., California



### ACCESSORIES

407744	N	94dB Sound Calibrator (0.5", 1" microphones)
407766	N	94/114dB Sound Calibrator (0.5", 1" microphones)
TR100		Tripod (for meters with Tripod mount feature)
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		110V AC Adaptor
144220		220V AC adaptor
144240		240V AC adaptor
UA100-240		100-240V AC Adaptor with 3 plugs (US, EU, UK)



## 407768 Sound Level Meter with PC Interface

Includes Windows® compatible software

- ±1.4dB accuracy
- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 61672 Class 2, EN 60651)
- Auto/Manual ranging
- MIN/MAX and Max Hold
- PC 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® compatible software, Serial cable, microphone wind screen and carrying case



## 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 screen, tripod, built-in stand, hard carrying case, and 9V battery

### SPECIFICATIONS

	407768 <span>N</span>	HD600 <span>N</span>
Range	30 to 130dB	30 to 130dB
Basic Accuracy	±1.4dB	±1.4dB
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/DC
PC Interface	Yes	Yes
Datalogging	—	20,000 Records
CE approved	Yes	Yes
Dimensions/Weight	10.6x2.7x1.1" (268x68x29mm)/10oz (284g)	10.9x3x2" (278x76x50mm)/12.3oz (350g)
Warranty	1 year	3 years



**NEW**

## SDL600 Data Logging Sound Level Meter with SD Card

Datalogging capability up to 20M records using a 2G SD card

- $\pm 1.4$ dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with date and time stamp
- Manual store/recall of up to 99 records
- Min/Max, Peak Hold, and Data Hold functions
- Auto power off with disable capability
- Built-in PC interface
- Complete with SD Card, wind screen, 6 AA batteries, and hard carrying case; Optional AC Adaptor UA100-240



## 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 screen, Windows® compatible software, Serial cable, 4 AA batteries, and case; (Optional AC Adaptor - see p. 112)



## 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 cable, 9 to 25 pin gender changer, Windows® compatible software, microphone wind screen, 4 AA batteries and carrying case; (Optional AC Adaptor - see p. 112)

SDL600 <small>N</small>	407764 <small>N</small>	407780 <small>N</small>	SPECIFICATIONS
30 to 130dB (3 ranges)	30 to 130dB	30 to 130dB	Range
$\pm 1.4$ dB	$\pm 1.5$ dB	$\pm 1.5$ dB	Basic Accuracy
Yes	Yes	Yes	Weighting (A & C)
Yes	Yes	Yes	Response Time (Fast/Slow)
0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Detachable 0.5" (12.7mm)	Condenser Microphone
AC	AC/DC	AC/DC	Analog Output
Yes	Yes	Yes	PC Interface
20M Records on 2G Memory Card	128,000 Records	32,000 Records	Datalogging
Yes	Yes	Yes	CE approved
9.8x2.9x1.9" (250X73X48mm)/18.3oz (520g)	10.4x2.8x0.8" (265x72x21mm)/11.5oz (358g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)	Dimensions/Weight
3 years	1 year	1 year	Warranty



## 407760 USB Sound Level Datalogger



CE



Features Record and Alarm LEDs, tripod, and USB connectivity

### High accuracy datalogging of up to 129,920 records

- 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
- 1 year warranty
- Complete with 3.6V Lithium battery, Windows® compatible software, USB cover, tripod, and windscreen

### SPECIFICATIONS

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 / PC Interface	129,920 points / USB
Dimensions/Weight	5.1x1.1x0.9" (130x30x25mm)/ 1oz (20g)

### ORDERING

407760	N	USB Sound Level Datalogger
42299		3.6V Lithium Battery (pk of 2)

## SL130G Sound Level Alert with Alarm



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

- Bright LEDs (red flashing or green) alert user when sound level is too high or too low — LEDs can be read from 30m (100ft)
- 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 with OSHA
- Wall, desk or tripod mount (optional TR100 tripod — sold separately)
- Adjustable 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
- 1 year warranty
- Complete with universal AC adaptor and microphone wind screen

### SPECIFICATIONS

Display	4.6 x 3.125" (117x79mm) multifunction LCD
Frequency bandwidth	31.5 Hz to 8 kHz
Microphone	0.5" Electret Condenser Microphone (detachable)
Measurement ranges	30 to 80dB, 60 to 110dB, 80 to 130dB
Frequency weighting	'A' and 'C'
Response time	Fast: 125ms / Slow: 1s
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
Dimensions/Weight	8.75x7.1x1.25" / 0.63 lbs. (22x18x3.2cm / 285g)

### ORDERING

SL130G	N	Sound Level Alert
SL123		AC Alarm Relay Module 9 foot cable (3m)
SL124		DC Alarm Relay Module 9 foot cable (3m)
SL125		Remote Microphone cable 15' (5m)
TR100		Tripod (for meters with Tripod mount feature)
407766	N	Sound Level Calibrator, 94/114dB

## 407790 Real Time 1/3 Octave Band Analyzer



CE



Complete with Windows® compatible software, Serial cable, 4 x C batteries, microphone wind screen, mini screwdriver, 120V AC adaptor, and case. See p. 112 for 220-240V Adaptors; 1 year warranty

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

- 160x160 dot matrix backlit LCD
- Stores 12,280 records in SLM mode and 1024 points in 1/1 or 1/3 octave mode
- Transferred data to a PC to be 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

#### SPECIFICATIONS

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

#### ORDERING

407790	N	Octave Band Sound Analyzer
407764-EXT		15ft (4.7m) Microphone Extension Cable
407744	N	94dB Sound Level Calibrator (see p. 110)
407766	N	94/114dB Sound Level Calibrator (see p. 110)
USB100		RS-232 to USB Adaptor

## 407355 Personal Noise Dosimeter Datalogger and Kit



CE



### 407355-KIT-5

Dosimeter Kit includes five 407355 Dosimeters, 407766 Sound level calibrator, and carrying case

Complete with belt clip, clip-on 0.5" microphone with 2.6ft (0.8m) cable, software, 4 AAA batteries, mini screwdriver and carrying case; 1 year warranty

### Measure total sound exposure over an 8-hour period

- 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® 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 4500 readings when used as a sound level meter
- Stores up to 5 dosimeter surveys (Kit 407355-KIT-5 available). Data includes Start/Stop Time, %Dose, TWA, Peak flags, when used in the Dosimeter mode

#### SPECIFICATIONS

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

#### ORDERING

407355	N	Noise Dosimeter/Datalogger
407355-KIT-5		Noise Dosimeter/Datalogger Kit
407744	N	94dB Sound Level Calibrator (see p. 110)
407766	N	94/114dB Sound Level Calibrator (see p. 110)
USB100		PC to USB Adaptor