

# Sound Level Meters

LA-1210/1220/1240/1250

*An application-specific series  
for use in a wide range of fields*

- Linearity range: 85 dB
- Long battery life (approximately 40 hours)
- Measurement condition storage function makes it easier to start measurements
- Key protect function to prevent accidental operation
- Time scheduled operation for environmental measurements (LA-1250)
- Comparator output and external control setting capability (optional)



**ONO SOKKI**



***The LA-1200 series:  
Combining the ultimate in user-friendliness  
and functionality in a single unit***

Noise is a serious environmental problem that affects us in our daily life, and sound level meters are an indispensable tool for addressing noise issues. Unfortunately, traditional sound level meters have a number of drawbacks, such as requiring large amounts of data. Another problem encountered with certain types of noise characteristics is the need for 24 hours of continuous measurement, which increases costs tremendously. The LA-1200 series was designed to solve these problems, providing a user-friendly, next-generation sound level meter solution for measurements in the field. These meters let you measure noise accurately and efficiently according to the needs of the particular application. High-end models are also available. Ono Sokki's sound level meter lineup includes the LA-2000 series of multi-function integrating sound level meters with an optional octave analysis function, and the LA-5000 series of precision sound level meters. This broad product lineup provides sound level meter solutions tailored to your needs.

**85-dB linearity range**

Linearity range was improved to 85 dB, a 70 percent increase over Ono Sokki's earlier models. In addition, battery life has been extended to approximately 40 hours, and the meter's weight has been reduced to 260 grams.

**Measurement condition storage function**

All sound level meters have a resume function, which stores measurement conditions when the meter is turned off, and a key protect function. These functions make the meters easier to use and prevent accidental operation. Models LA-1240 and LA-1250 can also store nine different measurement condition sets for different applications.

**Compliant with new environmental standards (LA-1250)**

The LA-1250 includes a back-erase function and automatic measurement function for advanced environmental sound measurements. A single LA-1250 meter can handle a wide range of environmental sound level measurements.

**Comparator output (optional on LA-0121)**

When combined with an external recorder (e.g., DAT, MD), the comparator output function makes it easy to record sound levels at or above a certain sound pressure level. This feature is useful for identifying noise that needs to be filtered out during road traffic sound level measurement. (Not available with LA-1210.)

**Optional external control (optional on LA-0122)**

This option lets you start and pause measurements, output data to a printer, and write data to internal memory through external controls. This simplifies the process of starting measurements simultaneously on multiple sound level meters. The comparator output and external control capabilities can be combined for automatic measurement of values exceeding a set level. (Not available with LA-1210 and LA-1220.)



# The LA-1200 series: A full lineup of meters for high-precision, application-specific measurements

The models in the LA-1200 series of sound level meters are tailored to specific applications. The meter body has been made lighter while adding memory capability and expanding the linearity range. At the same time, battery life has been increased, and the meters are designed for easy use in the field. The comparator function\* makes it easy to monitor for sudden noises, and the external control function\* lets you start measurements on multiple meters simultaneously.

\* Optional (See the specifications for models that are available with these functions.)

Sound level meter  
**LA-1210**  
Sound level meter with online function  
**LA-1220**

**NEW**



*The basic platform  
for sound level measurements*

## Ideal for stationary sound level measurements

- For general measurements
- For measurement of weighted (LA, LC) and non-weighted (LE) sound pressure levels
- RS-232C interface (for online communication with a PC; model LA-1220)
- Comparator output (optional; model LA-1220)

Integrating sound level meter with memory  
**LA-1240**

**NEW**



*A general-purpose model  
suitable for non-stationary  
sound level measurements*

## Ideal for non-stationary sound level measurements

- For industrial measurements and work environment measurements
- For measurement of equivalent sound levels (Leq), sound exposure levels (LE), and percentile sound pressure levels (Lx)
- Internal memory (manual: 300 addresses) Each address can hold eight measurements and four parameters - Leq, LE, Lmax, Lx (5, 10, 50, 90, 95).
- Comparator output (optional)
- External control (optional)

Integrating sound level meter for environmental measurements  
**LA-1250**

**NEW**



*The new standard  
in noise pollution meters*

## Ideal for road traffic sound level measurements

- For environmental measurements
- For measurement of equivalent continuous sound pressure levels (Leq), sound exposure levels (LE), and percentile sound pressure levels (Lx)
- Automatic measurement function (including power-saving function)
- Back-erase function (maximum ten seconds)
- Internal memory (manual: 300 addresses; blocks: 1440 addresses × 10 blocks) Each address can hold eight measurements and four parameters - Leq, LE, Lmax, Lx (5, 10, 50, 90, 95)
- Comparator output (optional)
- External control (optional)

*A variety of options and peripherals  
for an even broader range of measurements.*

SR-5300 real-time analyzer

CF series FFT analyzer

CX-4500 level recorder

SC-3100/SC-2120 acoustic calibrators

Extension cables AG-3301 (5 meters) through AG-3305 (100 meters)  
\*Ask for details regarding maximum sound pressure.

LA-0203 measurement tripod

LA-0205 all-weather wind-screen  
\*Tripod and extension cable required.

AX-501 connector cable (analog output cable)

AX-502 connector cable (PC-AT cable)

AX-502 connector cable (printer cable)

DPU-414 printer

PW-4007 power adapter

PC and data transfer software

## Model Comparison

	LA-1210	LA-1220	LA-1240	LA-1250
Parameters	Instantaneous sound pressure (LE), maximum value (Max)	●	●	●
	Equivalent continuous sound pressure (Leq)	—	—	●
	sound exposure (LE) percentile sound pressure (Lx)	—	—	●
Memory	Manual	—	300 addresses	300 addresses
	Blocks	—	—	1440 addresses × 10 blocks
Back-erase function	—	—	—	●
Automatic measurement function (with power-saving function)	—	—	—	●
Clock	—	—	●	●
Measurement condition storage	—	—	9 sets	9 sets
Comparator output	—	○	○	○
External control	—	—	○	○
RS-232C	—	●	●	●

●: Standard; ○: Optional

# Specifications for LA-1200 Series Sound Level Meters

Model	LA-1210	LA-1220	LA-1240	LA-1250	
Applicable standards	JIS C1502, IEC 60651 TYPE2, IEC60804 TYPE2, Draft IEC 61672-Aug 1998 Class 2, ANSI S 1.4 Type 2				
Linearity range	85 dB				
Frequency range	20 Hz to 8 kHz				
Measurement range	JIS	27 to 130 dB (A), 32 to 130 dB (C), 37 to 130 dB (FLAT)			
	IEC	26 to 140 dB (A), 31 to 140 dB (C), 36 to 140 dB (FLAT)			
Frequency characteristic correction	A,C, FLAT				
Measured parameters	Instantaneous sound pressure level ( $L_{EP}$ )	●	●	●	●
	Equivalent continuous sound pressure level ( $L_{eq}$ )	—	—	●	●
	Sound exposure level ( $L_E$ )	—	—	●	●
	Percentile sound pressure level ( $L_{x}$ )	—	—	●	●
	Maximum value ( $M_{ax}$ )	●	●	●	●
Dynamic characteristics	FAST, SLOW				
Sampling periods	Equivalent continuous sound pressure level ( $L_{eq}$ )	32 $\mu$ S			
	Percentile sound pressure level ( $L_{x}$ )	—	—	100 ms	100 ms
	Maximum value ( $M_{ax}$ )	32 $\mu$ S			
Display period	Digital display	1 second			
	Bar indicator	100 ms			
Memory function (note 1)	Manual	—	—	300 addresses	300 addresses
	Block	—	—	—	1440 addresses × 10 blocks
Analog output	AC output	Full scale 0.707 Vrms			
	DC output	Full scale 2.5V 0.5V/10 dB			
Clock function	—	—	●	●	
Automatic measurement function (with power-saving function)	—	—	—	●	
Resume function	●	●	●	●	
Measurement condition storage function	—	—	9 sets	9 sets	
Key protect function	●	●	●	●	
Back erase function	—	—	—	●	
External control	—	—	○	○	
Comparator output	—	○	○	○	
RS-232C	—	●	●	●	
Display	Segmented				
Power	2 AA batteries				
Battery life	Manganese batteries	Approximately 24 hours			
	Alkaline batteries	Approximately 40 hours			
Operating temperature range	-10 to 50°C				
Operating humidity range	30 to 90% RH				
External dimensions	Approximately 70 × 240 × 30 mm				
Accessories	AC adapter, signal cable, batteries, screwdriver for making adjustments, wind screen, hand strap, carrying case, operating manual				
Weight	Approximately 260 grams				

●:Standard ○:Optional Note 1:  $L_{eq}$ ,  $L_E$ ,  $L_{max}$ ,  $L_5$ ,  $L_{10}$ ,  $L_{50}$ ,  $L_{90}$ , and  $L_{95}$  are all stored in a single address.

High-end models

**LA-5120/5111/2111 Integrating precision sound level meters with extra wide (100 dB) range in a compact body**

● Windows is a registered trademark of Microsoft Corporation, U.S.A in the United States and other countries.

\*Outer appearance and specifications are subject to change without prior notice.

HOME PAGE: <http://www.onosokki.co.jp/English/english.htm>

## ONO SOKKI

### U.S.A. & CANADA

Ono Sokki Technology Inc.  
2171 Executive Drive, Suite 400  
Addison, IL. 60101  
U.S.A.  
Phone: 630-627-9700  
Fax: 630-627-0004

### EUROPE

Ono Sokki Mess-und  
Kontrollsysteme GmbH  
Im Vogelsang 1, D-71101 Schoenaich  
Germany  
Phone: 07031-630203  
Fax: 07031-654249

### P.R.CHINA

Ono Sokki Beijing Office  
Beijing Jing Guang Center 3510  
Hu Jia Lou, Chao Yang Qu  
Beijing P.R.C. 100020  
Phone: 010-6597-3113  
Fax: 010-6597-3114

### WORLDWIDE

Ono Sokki Co., Ltd.  
1-16-1 Hakusan, Midori-ku,  
Yokohama 226-8507, Japan  
Phone: 045-935-3976  
Fax: 045-930-1906  
E-mail: [overseas@onosokki.co.jp](mailto:overseas@onosokki.co.jp)