

Sound Level Meters

LA-1000/4000 series

*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-1250/1350/4350)*
- *Comparator output and external control setting capability*



ONO SOKKI

A Complete Lineup of Models for the LA-1000/4000 Series

Permits High-Accuracy Low-Cost Measurement for the Intended Application

A wide range of choices to suit all needs and applications

Type 1 (LA-4000) and Type 2 (LA-1000)

Equipped with Memory

Wide Linearity range

Light weight

Extended battery life

An ideal attained through the uncompromising pursuit of functionality and ease of operation

Signals can be extended with BNC cables

LA-1350 (Type 2)
LA-4350 (Type 1)

- Performance remains unaffected, even when microphone signals are extended to 100 meters
- The unit is also compatible with inexpensive BNC cables
- Measures Leq, LE, Lmax, and Lx simultaneously
- Peak measurement (Only in LA-4350)
- Provides a timer-measurement function
- Back-erase function
- Manual memory and auto-memory (Block memory)
- Setup memory
- Comparator (LA-0121)
- External control (LA-0122)



50 m long extension cable (BNC)

Basics for sound-level measurement

LA-1210 (Type 2)
LA-1220 (Type 2 with RS-232C)

- Sound-level meter suitable for measuring steady noise
- Measures LA, Lp, and Lmax
- RS-232C (Only in LA-1220)
- Comparator output (Only in LA-1220)



Integrated sound-level meter with memory

LA-1240 (Type 2)
LA-1250 (Type 2 with timer-measurement function)

- Measures Leq, LE, Lmax, and Lx simultaneously
- Provides a timer-measurement function (Only in LA-1250)
- Back-erase function (Only in LA-1250)
- Manual memory and auto-memory (Block memory) (Only in LA-1250)
- Setup memory
- Comparator (LA-0121)
- External control (LA-0122)



Linearity range 85 dB

The linearity range has been increased 70% (compared to the preceding Ono Sokki models) to 85 dB, while achieving a battery life exceeding 40 hours (in LA-1200 series). In addition, weight has been reduced to 260 g. (All models in this Series)

Condition Setup memory

The Resume function, which saves measurement conditions when the unit is powered off, and the Key-Protect function, provided in all models, permit simple, fool-proof operation. The integrated sound-level meters can store up to nine sets of different measurement conditions, and appropriate measurement conditions can be chosen as required by the circumstances. (Stores nine measurement condition setups : the LA-1240, 1250, 1350, 4240, 4350)

Mass-storage memory

The unit offers capacity sufficient for saving 300 data sets in manual measurement, or 10 blocks of 1,440 sets in block memory : i.e., a total of 14,400 sets of measurement results in timer-measurement. One block corresponds to the data for one day (each item of data is acquired by continuous measurement for 1 minute). Data for the Leq, LE, Lmax, and Lx (5, 10, 50, 90, 95) are stored at one address. (Manual memory : All models except the LA-1210. Block memory : LA-1250, 1350, 4350)

Timer-measurement function

Entering a measurement time, measurement interval and total measurement time enables automatic measurement. Along with these variables, you can also set the measurement start time. The back-erase function is enabled even during timer-measurement. In timer-measurement mode, power-saving functions reduce unit power consumption, extending battery life.

Back-erase function

You can hold down the [PAUSE] button during measurement to backward-delete measurement data for up to 10 seconds back. The unit enters its pause state after data deletion. Pressing the [PAUSE] button resumes measurement.

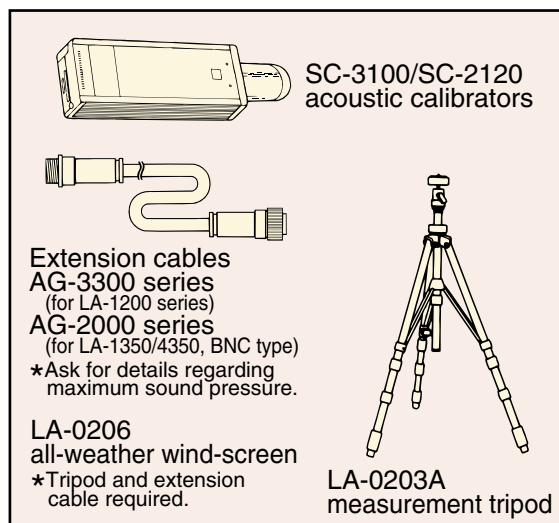
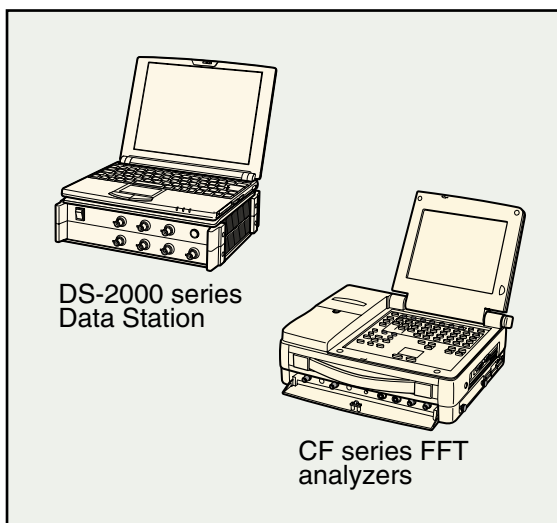
Comparator output (LA-0121)

When used with an external recorder such as DAT or MD, the unit allows easy recording of any noise levels above a certain level. In measurements of environmental noise, it is able to discriminate sounds that should be eliminated. (Available in all models, except the LA-1210.)

External control function (LA-0122)

Functions including "Start Measurement," "Stop Measurement Temporarily," "Output to Printer," and "Write to Internal Memory" can be controlled externally. Simultaneous start of measurement with multiple sound-level meters can be carried out by a simple operation. Values in excess of a preset level can be measured automatically by combining comparator output and external control. (Available in all models, except the LA-1210 and LA-1220.)

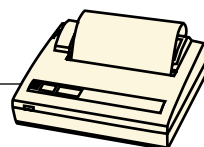
*A variety of options and peripherals
for an even broader range of measurements.*



AX-501
connection cable
(analog output cable)

AX-5042 RS-232C cable (2m, for printer)

AX-5022 RS-232C cable (2m, for PC)



DPU-414 printer
PW-4007 power adapter



Data transfer to a PC

Model Comparison

IEC Type 1 : Green IEC Type 2 : Orange		LA-1210 LA-1220	LA-1240	LA-1250	LA-1350 LA-4350
Measurable parameters	Lp	Yes	Yes	Yes	Yes
	Lmax				
	Leq		Yes	Yes	Yes
	LE				
	Lx				
	Lpk				Yes* ¹
Memory	Manual (300 addresses)		Yes	Yes	Yes
	Block (1440 addresses×10 blocks)			Yes	Yes
Back erase function				Yes	Yes
Timer measurement functions with power saving function				Yes	Yes
Clock			Yes	Yes	Yes
Condition storage (9 conditions)			Yes	Yes	Yes
Comparator output (LA-0121)		Yes* ²	Yes	Yes	Yes
External control (LA-0122)			Yes	Yes	Yes
RS-232C Interface		Yes* ²	Yes	Yes	Yes
Extension with BNC cable					Yes

*1 LA-4350 only *2 LA-1220 only

Specifications for LA-1000/4000 Series Sound Level Meters

Model	LA-1210 LA-1220	LA-1240	LA-1250	LA-1350 LA-4350
Applicable standards	LA-1210/1220		JIS C1520 Type 2, IEC60651 Type 2, Draft IEC 61672-Aug 1998 Class 2, ANSI S1.4 Type 2	
	LA-1240/1250/1350		JIS C1502 Type 2, IEC60651 Type 2, IEC60804 Type 2, Draft IEC 61672-Aug 1998 Class 2, ANSI S1.4 Type 2	
	LA-4350		JIS C1505 Type 1, IEC60651 Type 1, IEC60804 Type 1, Draft IEC 61672-Aug 1998 Class 1, ANSI S1.4 Type 1	
Linearity range	85 dB			
Measurement range	LA-1210/1220/1240/1250		26 to 140 dB (A), 31 to 140 dB (C), 36 to 140 dB (FLAT)(IEC)	
	LA-1350		26 to 137 dB (A), 31 to 137 dB (C), 36 to 137 dB (FLAT)(IEC)	
	LA-4350		25 to 137 dB (A), 30 to 137 dB (C), 35 to 137 dB (FLAT)(IEC)	
Frequency weighting	A, C, FLAT			
Measurable Parameters	Lp, Lmax	Lp, Leq, LE, Lx, Lmax	Lp, Leq, LE, Lx, Lmax	Lp, Leq, LE, Lx, Lmax Lpk(LA-4350 only)
Time weighting	FAST, SLOW, IMP (LA-4350 only)			
Sampling periods	Leq	32 μs	32 μs	32 μs LA-1350 : 32 μs LA-4350 : 20.8 μs
	Lx	—	—	100 ms
	Lmax	32 μs	32 μs	32 μs LA-1350 : 32 μs LA-4350 : 20.8 μs
	Lpk	—	—	20.8 μs (LA-4350 only)
Display update rate	Numeric display : 1 s, Bar indicator : 100 ms			
Manual memory	— 300 addresses			
Block memory	— 1440 addresses × 10 blocks			
Signal extension cable	AG-3300 series			AG-2000 series or BNC cable
Max. cable length	30 m	30 m	30 m	LA-1350 : 300 m LA-4350 : 100 m
AC output	0.707 Vrms/full scale			
DC output	2.5 V/full scale, 0.5 V/10 dB			
Clock function	—	provided	provided	provided
Timer measurement w/t power saving function	—	—	provided	provided
Resume function	provided	provided	provided	provided
Measurement setup memory	— 9 conditions			
Key protection	provided	provided	provided	provided
Back erase function	—	—	provided	provided
External control (opt)	—	LA-0122	LA-0122	LA-0122
Comparator output (opt)	LA-0121(LA-1220 only)	LA-0121	LA-0121	LA-0121
RS-232C Interface	provided (LA-1220 only)	provided	provided	provided
Display	Segmented LCD			
Power supply	2 × type AA batteries, AC adapter (PB-8200)			
Battery life (w/t alkaline batteries)	50 hours			LA-1350 : 35hours LA-4350 : 30 hours
Operating temperature range	-10 to 50 °C			
Operating humidity range	30 to 90% RH			
Outer dimensions	Approx. 70(W) × 240(H) × 30(D) mm			
Accessories	AC adapter, signal I/O cable (AX-501), adjustment screw driver, windscreen, hand strap, carrying case, 2 x type AA batteries, shoulder belt, operation manual			
Weight	Approx. 260g			

High-end models

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

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

ONO SOKKI

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

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