



Sound level meter

TYPE 6236

Precision Sound level meter

TYPE 6238

Capture the sound

World first! Built-in 0-dB function (Option)

Symbolizing the next-generation sound level meter
with extremely high resolution and reliability

 **ACO CO.,LTD.**

SPECIFICATIONS

Type	TYPE 6236	TYPE 6238
Applicable Standards	Sound level meter JIS C1509-1 : 2005 Class 2 IEC 61672-1 : 2002 Class II	Precision Sound level meter JIS C1509-1 : 2005 Class1 IEC 61672-1 : 2002 Class I
Measurement Range	20Hz ~ 20kHz	5Hz ~ 20kHz
Microphone (Sensitivity)	TYPE 7052NR (-33dB, Stand-alone -31dB)	TYPE 7146NR (-29dB Stand-alone -27dB)
Level Range Control	10dB 6step 20 ~ 80dB, 20 ~ 90dB, 20 ~ 100dB, 20 ~ 110dB, 30 ~ 120dB, 40 ~ 130dB	
Measurement Level	A : 28 ~ 130dB(0 ~ 80dB / 0-dB measurement function in ON) C : 36 ~ 130dB Z(FLAT) : 38 ~ 130dB C peak : 55 ~ 141dB Z(FLAT)peak : 60 ~ 141dB	
Self-noise level	The lower limit of the measurement range in dB lies 6dB higher than self-noise level.	
Linearity Range	100dB	
Time weighting	Fast, Slow, Impulse	
Frequency weighting	A, C, Z(FLAT)	
Measurement items	Sound pressure level(L_p) A-weighted sound pressure level, C-weighted sound pressure level(L_A , L_C) Equivalent continuous A-weighted sound pressure level(L_{Aeq}) Sound exposure level(L_{Ae}) Maximum sound pressure level(L_{Amax}) Minimum sound pressure level(L_{Amin}) Percentile sound pressure level(5 freely selectable values, LAN) Peak sound pressure level(L_{peak}) C-weighted peak sound pressure level(L_{cpeak}) C-weighted equivalent continuous sound pressure level(L_{ceq}) Power average of maximum sound pressure level in a given interval(L_{Atms}) Impulse sound pressure level(L_A) Impulse equivalent continuous sound pressure level(L_{Aeq})	
Measurement time	1s, 3s, 5s, 10s, 1mim, 5mim, 10mim, 15mim, 30mim, 1h, 8h, 12h, 24h, Manual (Max. 199h59m59s)	
Sampling Time	20.8 μ s (L_{eq} , L_{max} , L_{min}) 100ms (L_N)	
Data clear function	Pause, and a function that deletes preceding 3 or 5 sec. data Memory start ; Selectable Auto or Manual	
Timer function	A marker can be set to start and stop the measurement at any specified moments.	
Display	Liquid crystal and Backlight (128×64 points) Display range : 4digits display Display cycle : display Period : 1s Bar display : display Period : 0.1s Warning : Over ; +3dB from upper limited scale Under ; -0.6dB from lower limited scale Battery display : 5 steps display Date : year / month / day / hour : minute : second	
Outputs	AC output : ϕ 2.5 Jack Output : 1Vrms (FS) Output impedance : 600Ω Load impedance : more than 10kΩ DC output : ϕ 2.5 Jack Output : 2.5V (FS), 0.25V/10dB, Output impedance : 50Ω Load impedance : more than 10kΩ	
RMS detection circuit	True RMS detection circuit (computing type)	
Processing	Digital	
Pause	Normal pause function, as well as the function of canceling the data before pausing the measurement, are available.	
Data Storage Functions	Sound pressure level or Processed values stored in built-in Memory or Memory card. Manual Storage : Sound level, Calculation value, Memory time, Store the Sampling Time to Built-in memory or on Memory card. Auto Storage : Sampling interval 100ms, 200ms, sound level , L_{eq} etc. Processing Card : Storage of calculation results	
I/O	Direct output to printer, control and output data to computer Digital output of real-time noise waveform with USB interface.	
Comparator Output	Comparator Function with threshold level.	
Battery Type	Four 1.5V Alkaline cells IEC type LR6, Optional AC adapter Battery life : Alkaline dry cell ; Approx.9 hours when Switch on a back light ; Approx.1/3 Consumption current : Approx.150mA (When input 6V) at Calculation OFF.	
Operating temperature	-10 ~ 50°C 30% ~ 90%RH (no condensation)	
Weight	Less than Approx.450g (Including batteries)	

Option	<ul style="list-style-type: none"> 1/1 and 1/3-octave Real-time Analysis Card Applicable standards : JIS C1514 (IEC61260) : Class1 Measurement mode : Sound pressure level (L_p), Equivalent continuous Sound pressure level (L_{eq}), Sound exposure level(L_E), Maximum sound pressure level (L_{max}) (One of the measurement modes selected as above is displayed.) Frequency analysis band : 1/1- octave filter : 16Hz, 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500Hz,1kHz, 2kHz,4kHz, 8kHz, AP 1/3- octave filter : 12.5Hz, 16Hz, 20 Hz,25 Hz,31.5Hz,40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz,160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz,8kHz,10kHz, 12.5kHz, 16kHz, AP FFT Analysis Card Frequency span : 2kHz, 5kHz, 10kHz, 20kHz Time window : Rectangular, Hanning Analysis line : 400 Zoom : $\times 1$, $\times 2$, $\times 4$ Processing : Sound pressure level, Linear average value, Max, RSR card (Real sound recording card) This card enables automatic recording with specified level and time, namely adding the function of recording real wave data. The data is recorded in WAVE file format (48kHz 16bit Mono), easily corresponding to most common application software of acoustic analysis, as well as displaying its greatest force in all kinds of acoustic analysis.
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Option



Piston phone	TYPE 2124A
Sound calibrator	TYPE2127
Tripod exclusively for sound level meter	NA-0333
BNC output cable	BC-0071
Extension cable	BC-0046
AC adapter	AC-1026
1/1 and 1/3-octave Real-time Analysis Card	NA-0038
FFT Analysis Card	NA-0038F
RSR Card (Real Sound Recording Card)	NA-0038R
USB interface cable	BC-0038PC
Data management software	NA-0038M
0-dB function [0~80dB(A)]	6236(0dB)

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