



Capture the sound

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

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



Excellent cost performance, beating down the equivalent

Example of the display for 0-dB function

A Fast LA

Example of the display for TL (Time level)

Large digital display

Memory card slot

In accordance with growing environment conservation, the evaluation of environmental noise such as traffic noise or industrial equipment noise, or better understanding of the labor health environment at offices, factories, etc are getting more important than ever before. On-site measurement of environmental noise is strongly expected to have high resolution and real-time analyzing function on the spot. Moreover, in the field of product development such as car parts electric appliances, etc., it is required to measure and analyze the sound of ultra-low level more accurately, corresponding to the rise of consciousness that the acoustic characteristics such as silence, tone quality, etc., should be the part of the product, which is deeply related to our human hearing sensation.

TYPE 6236/6238 displays its greatest force for these needs. Measurement of most measurands, such as Equivalent continuous A-weighted sound pressure level (L_{Aeq}), Sound exposure level (L_{AE}), A-weighted sound pressure level (L_{A}), etc., is possible. Equipped with a card slot, enables to add the specified analyzing function by inserting the option program card (SD Card). Various program cards (Option) are available, such as 1/1 and 1/3-octave analysis card, FTT analysis Card etc. The "0-dB" function [world first] (Option · built in the main body) realizes the super-wide-range measurement over 0 \sim 80dB(A), i.e., from ultra-low sound pressure level to high pressure level.

This equipment is symbolizing the next-generation sound level meter with extremely high resolution and reliability.

The "0-dB"function [world first] (Option)

measurement of the noise of ultra–low sound pressure level is possible. The function displays the greatest force in the evaluation of "quietness" or sound quality of silent model of recent IT/OA equipments, as well as in those of air–conditioning noise level or sound isolation capability of newly built concert halls where the room ambient noise is below "NC–20 .

* Technology relating to "0-dB measurement Function" is the fruit of joint research work with Shizuoka University.

Equipped with a function of displaying NC-curve with evaluated NC index

by inserting Real-time 1/1 or 1/3-octave Analysis Card, evaluated NC index is displayed in real time, empowering the evaluation of on-site noise measurement.

Percentile sound pressure level (L_N)

any 5 selectable values is available.

Measurement of Equivalent continuous A-weighted sound pressure level (L_{Aeq})

measurement of environmental noise required to secure occupational heal.

Wide linearity range of 100dB

covers wide range of 20~130dB.

Equipped with an USB Ver1.1 function

allows data processing for PC.

Backlight LCD screen for high

visibility and easy-on-the eye display.

Timer function

measurement can be paused or restarted at any point of time by installing the function.

Excellent cost performance, beating down the equivalent

covers most measurands in current criteria.



TYPE 6236 TYPE 6238 Option Type Precision Sound level meter Sound level meter Measurement mode: Sound pressure level (Lp), Equivalent continuous JIS C1509-1: 2005 Class 2 JIS C1509-1: 2005 Class1 Applicable Standards IEC 61672-1: 2002 Class II IEC 61672-1: 2002 Class I 20Hz ~ 20kHz 5Hz ~ 20kHz Measurement Range Frequency analysis band: TYPE 7052NR TYPE 7146NR Microphone (-33dB, Stand-alone -31dB) (-29dB Stand-alone -27dB) (Sensitivity) Level Range Control 10dB 6step $20 \sim 80$ dB, $20 \sim 90$ dB, $20 \sim 100$ dB, 20 ~ 110dB, 30 ~ 120dB, 40 ~ 130dB A: $28 \sim 130 \text{dB} (0 \sim 80 \text{dB} / 0 \text{-dB} \text{ measurement function in ON})$ Measurement Level C: 36 ~ 130dB Z(FLAT): 38 ~ 130dB C peak : 55 ~ 141dB FFT Analysis Card Z(FLAT)peak : 60 ~ 141dB The lower limit of the measurement range in dB lies 6dB higher Self-noise level Analysis line : 400 than self-noise level. Zoom: $\times 1, \times 2, \times 4$ Linearity Range Time weighting Fast, Slow, Impulse A, C, Z(FLAT) Frequency weighting Sound pressure level(Lp) Measurement items A-weighted sound pressure level. C-weighted sound pressure level(LA, LC) Equivalent continuous A-weighted sound pressure level(LAeq) kinds of acoustic analysis. Sound exposure level(LAE) Maximum sound pressure level(LAmax) Option Minimum sound pressure level(L_{Amin})
Percentile sound pressure level(5 freely selectable values, LAN) Peak sound pressure level(Lpeak) C-weighted peak sound pressure level(Lcpeak) C-weighted equivalent continuous sound pressure level(Lceq) Power average of maximum sound pressure level in a given interval(LAtm5) Impulse sound pressure level(LAI) Impulse equivalent continuous sound pressure level (LAlea) 1s, 3s, 5s, 10s, 1mim, 5mim, 10mim, 15mim, 30mim, Measurement time 1h, 8h, 12h, 24h, Manual (Max. 199h59m59s) Sampling Time 20.8 μ_s (L_{eq},L_{max},L_{min}) 100ms (L_N) BNC output cable Pause, and a function that deletes preceding 3 or 5 sec. data Data clear function Memory start; Selectable Auto or Manual A marker can be set to start and stop the measurement at any Timer function AC adapter 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 AC output: ϕ 2.5 Jack Outputs Output: 1Vrms (FS) Output impedance: 600Ω Load impedance : more than $10\text{k}\Omega$ DC output : ϕ 2.5 Jack Output: 2.5V (FS), 0.25V/10dB, Output impedance : 50Ω Load impedance : more than $10k\Omega$ True RMS detection circuit (computing type) RMS detection circuit Digital Processing Normal pause function, as well as the function of canceling Pause 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 Head office and Sales office Sampling Time to Built-in memory or on Memory card. 85-1 Otsuka, Hachioji-shi, Tokyo 192-0352 TEL: 81-426-76-4661 FAX: 81-426-76-5333 Auto Storage: Sampling interval 100ms, 200ms, sound level, Leg etc. Processing Card: Storage of calculation results Direct output to printer, control and output data to computer 1/0 Digital output of real-time noise waveform with USB interface. Comparator Function with threshold level. Comparator Output ACO CO.,LTD. Four 1.5V Alkaline cells IEC type LR6, Optional AC adapter **Battery Type** Distributed by: Battery life: Alkaline dry cell; Approx.9 hours when Switch on a back light; Approx.1/3 Suntech Instruments Co Ltd Consumption current: Approx.150mA (When input 6V) at Calcutation OFF Operating temperature $-10 \sim 50$ °C 30% ~ 90 %RH (no condensation)

Less than Approx.450g (Including batteries)

Weight

• 1/1 and 1/3-octave Real-time Analysis Card Applicable standards: JIS C1514 (IEC61260): Class1

Sound pressure level (Leq), Sound exposure level(LE), Maximum sound pressure level (Lmax)

(One of the measurement modes selected as above is displayed.)

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

Frequency span: 2kHz, 5kHz, 10kHz, 20kHz

Time window: Rectangular, Hanning

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



Piston phone	1YPE 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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