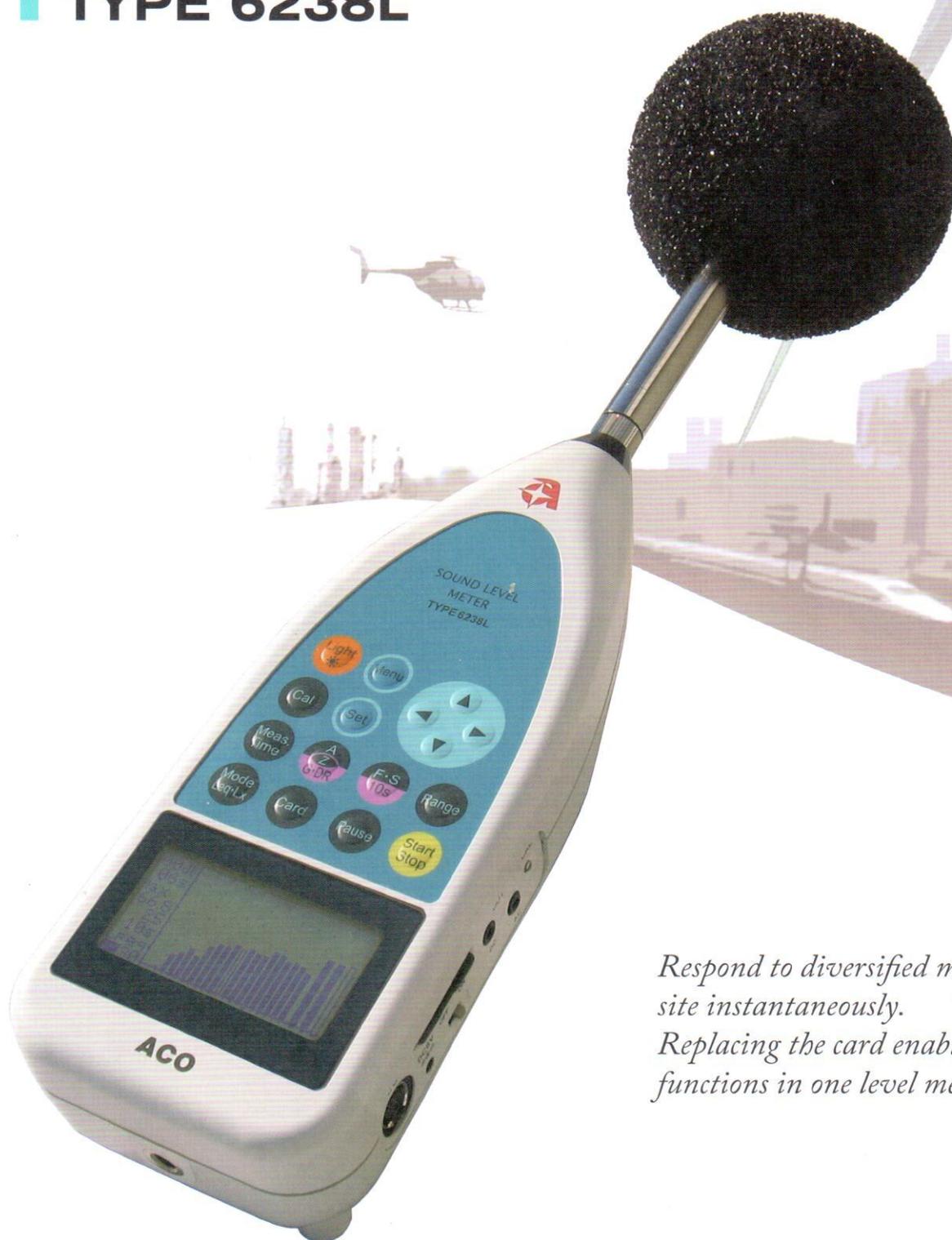


Low frequency sound pressure level meter
Precision Sound level meter

TYPE 6238L



*Respond to diversified measurement site instantaneously.
Replacing the card enables 2 measuring functions in one level meter.*

SPECIFICATIONS

Type	TYPE6238L
Microphone Type(Sensitivity)	TYPE 7146NL(-28dB, Stand-alone -26dB)
Name	Low frequency sound pressure level meter
Applicable Standards	JIS C 1514:2002 Class1 ISO 7196:1995
Frequency Range	FLAT(DR:1-500Hz) FLAT(FLAT:1-100Hz) G-weighted sound pressure level:LG(G ISO 7196 Reference) 1/3-octave(FLAT:1-80Hz)
Level Range Control	FLAT,G-weighted sound pressure level 20-80dB, 20-90dB,30-100dB 40-110dB,50-120dB, 60-130dB
Frequency analysis band	1/3-octave 1Hz, 1.25Hz, 1.6Hz, 2Hz, 2.5Hz, 3.15Hz, 4Hz, 5Hz 6.3Hz, 8Hz, 10Hz, 12.5Hz, 16Hz, 20Hz, 25Hz, 31.5Hz 40Hz, 50Hz, 63Hz, 80Hz, OA, AP, G
Measurement Level	G:40dB-130dB FLAT:50dB-130dB 1/3-octave:30dB-130dB
Overload characteristic	+3dB from upper limited scale
Self-noise level	The lower limit of the measurement range in dB lies 8dB higher than self-noise level.
Time weighting	Fast, Slow, 10sec
Frequency weighti	G(Digital), FLAT
Measurement items	Low frequency sound pressure level(L _{DR}) Low frequency sound pressure level(L _F) G-weighted sound pressure level(L _G) Equivalent continuous sound pressure level(L _{eq}) Maximum sound pressure level(L _{max})
Measurement time	1s, 3s, 5s, 10s, 1min, 5min, 10min, 15min, 30min, 1h, 8h, 12h, 24h, Manual (Max. 199h59m59s)
Sampling Time	20.8 μs (L _{eq} , L _{max} , L _{min} , L _{DR} , L _{DRmax} , L _{Peq} , L _{Pmax}) 666 μs (L _G , L _{Gmax}), 64ms (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
Calibration signal	Electric calibration with internal oscillator (1kHz, 20Hz sine wave)
Outputs	AC output : φ 2.5 Jack Output : 1Vrms (FS) Output impedance : 600 Ω Load impedance : more than 10k Ω DC output : φ 2.5 Jack Output : 2.5V (FS), 0.25V/10dB, Output impedance : 50 Ω Load impedance : more than 10k Ω
RMS detection circuit	True RMS detection circuit (computing type)
Processing	Digital
Pause	Normal temporary 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 to Built-in memory or on Memory card, Auto Storage : Sampling interval 100ms, 200ms, sound level, Leq 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)
Size	85(W) x 328(H) x 48(D)
Weight	Less than Approx.450g (Including batteries)

Name	Precision Sound level meter
Applicable Standards	JIS C1509-1:2005 Class I IEC 61672-1:2002 Class I
Frequency Range	20Hz-12.5kHz(Conforms with measurement law) 1Hz-20kHz(Z) 20Hz-20kHz(A)
Level Range Control	10dB step 6step 20-80dB, 20-90dB 30-100dB, 40-110dB 50-120dB, 60-130dB
Measurement Level	A:28-130dB Z:39-130dB
Overload characteristic	+3dB from upper limited scale
Self-noise level	The lower limit of the measurement range in dB lies 8dB higher than self-noise level.
Linearity Range	75dB
Time weighting	Fast, Slow
Frequency weighting	A, Z
Measurement items	Sound pressure level(L _p) A-weighted sound pressure level(L _A) 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, L _{AN}) Peak Sound Pressure level(L _{peak}) Power average of maximum sound pressure level in a given interval(L _{A1ms})

- Option
- 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, OA, 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, OA, AP
Level Range Control: 10-80dB, 20-90dB, 30-100dB, 50-120dB, 60-130dB
 - FFT Analysis Card
Frequency span : 2kHz, 5kHz, 10kHz, 20kHz
Time window : Rectangular, Hanning
Analysis line : 400
Zoom : ×1, ×2, ×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.

Option



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|---|------------|
| 1. Piston phone | TYPE 2124A |
| 2. Sound calibrator | TYPE2127 |
| 3. Tripod exclusively for sound level | NA-0333 |
| 4. Extension cable | BC-0046L |
| 5. AC adapter | AC-1026 |
| 6. 1/1 and 1/3-octave Real-time Anal | NA-0038 |
| 7. FFT Analysis Card | NA-0038F |
| 8. RSR Card (Real Sound Recording Card) | NA-0038R |
| 9. USB interface cable | BC-0038PC |
| 10. Data management software | NA-0038L |
| 11. Windscreens for wind power system measurement | NA-0380 |
| Fold-down type Windscreen for wind power system measurement | NA-0380A |
| 12. Carrying case(NA-0380A) | NA-0080 |
| 13. Windscreen (φ 175) | NA-0305A |

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