

Waterproof Sound Level Meter TYPE 6226NW

It can be used at the site to be expected as high-humidity environment with rain or sheet of spray.



▪ Product Outline

Our new product TYPE 6226NW is a “waterproof sound level meter” with included extension cable, realized by particular kind of waterproof technology newly developed. It guarantees trouble-free measurement even under rainy condition.

New development

▪ Dedicated waterproof microphone

Due to the function of special filter which lets air and sound through preventing water from coming in, it allows to continue the measurement despite of drops of water on the top of the microphones after they are dried up. The diaphragm or preamplifier would never be waterlogged or rust out.

▪ They can be used outdoor.

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| ▪ Outdoor noise measurement under the condition of rainfall.
(Aircraft noise, traffic noise, environmental noise) |
| ▪ Outdoor measurement of noise of running vehicle and measurement of engine room noise. |
| ▪ Noise level measurement in factories with steam generation |
| ▪ Environmental noise measurement at an indoor swimming pool or an aquarium. |
| ▪ Measurement of leisure cruiser noise or motorboat noise. |



Introduction

Measurement frequency range

TYPE 6226NW is provided with newly developed waterproof electret condenser microphone TYPE 7052NW, composed of time-tested high precision electret condenser microphone TYPE 7052 equipped with specified waterproofed grid.

The measurement frequency range is **20Hz~10kHz**

TYPE 6226NW is conformed to JIS C 1502, and IEC 651・804 Type2. measurement frequency range of "sound level meter" specified in C 1502 is **20Hz~8kHz**.

Linearity range

Linearity range is **100dB**.

Extended range has made the setup of sound level meter quite easy.

Measurement items

A-weighted sound pressure level (LA)

The LA Measurement is made by selecting dynamic characteristics "FAST" or "SLOW", and frequency characteristics "A".

The instantaneous sound level is displayed on the screen.

Numerical display is updated for "every second" and bar display "every 0.1 second".

Sound pressure level (LC/LF)

The LC/LF Measurement is made by selecting dynamic characteristics "FAST" or "SLOW", and frequency characteristics "C" or "F".

The instantaneous sound level is displayed on the screen.

Numerical display is updated for "every second" and bar display "every 0.1 second".

Equivalent continuous A-weighted sound pressure level (LAeq)

The LAeq Measurement is made by selecting dynamic characteristics "FAST" or "SLOW", and frequency characteristics "A".

Measuring time can be chosen from

1 second, 3 seconds, 5 seconds, 10 seconds, 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 8 hours, and 24 hours.

Manual measurement is also possible.

During measurement, if the "Pause" button is pushed, the data for 3 last seconds or 5 seconds can also be deleted.

The progress value of LAeq is displayed on a display.

Percentile sound pressure level (LX)

Preparations of a noise level and an equivalent noise level are made. 「Start」KEY is pushed.

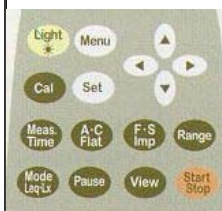
Percentile sound pressure level (L05, L10, L50, L90, L95), Sound exposure level (LAe), A-weighted sound pressure level (LA), an equivalent continuous A-weighted sound pressure level (LAeq), Maximum sound pressure level (Lmax), and minimum sound pressure level (Lmin) are simultaneously measurable.



Sensor



Appearance



Operation panel



Outside carrying case



Inside carrying case



Data saving and PC communication function

● Memory function

Approx.10,000 samples : 1000 sets of results.

● Calendar function

Built-in clock and calendar function installed.

● Output signal

Provided with AC and DC signal output.
DAT recorder and level recorder can be connected.

The data recorded in the memory can be printed out by connecting a dedicated printer.

● PC communication function

RS-232C function is equipped.
The data recorded in the memory can be transferred **to PC in real time** even under the measurement.

Data communication is possible with all kind of computers with RS-232C function.

Specification

●Extension cable 3m (standard length) include.

It offers trouble-free outdoor measurement at the site of noise source with microphone placed outdoor and main body indoor, as well as effectively functions in long-term measurement in the factory with high humidity.

●It fits together with windscreen NA-0301 and other optional articles.

It can be used under any indoor or outdoor conditions.

Type	TYPE 6226NW
Name	Waterproof Sound Level Meter
Applicable Standards	JIS C 1502 IEC 651·804Type2
Measurement Level	28~130dB(A), 33~130dB(C), 38~130db(F)
Frequency Range	20Hz~10kHz (Conforms with measurement law:20Hz~8kHz)
Microphone Type	TYPE 7052NW(Waterproof 1/2" electret condenser microphone)
Level Range	10dB step, 6 stages
Linearity range	100dB
Time weighting	FAST, SLOW, IMPULSE
Frequency weighting	A, C, FLAT
Measurement items	Sound pressure level(Lp) Equivalent continuous sound pressure level(Leq) Sound exposure level(Le), Maximum sound pressure Level(Lmax) Minimum sound pressure level(Lmin) Percentile sound pressure level(Lx, 5 freely selectable values) C-weighted Peak Sound Pressure level(LCPeak)
Measurement time	1s,3s,5s,10s,1min,5min,10min,15min,30min,1 h,8h,24h,Manual(Max.199h59m59s)
Sampling Time	20.8 μ s(Leq), 10ms(Lmax, Lmin)
Lx Sampling Time	100ms
Display	Liquid crystal and Backlight(128 \times 64 points)
Digital display	Display range:4digit 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	Battery 4 steps display
Built-in memory	Calculated value is memorized in memory. (Approx.10,000 samples:1000 sets of results)
Built-in calendar	year/month/day/hour:minute:second
Pause	Pause and a function that deletes preceding 3 or 5 sec Data
Calibration signal	Electric calibration with internal oscillator(1kHz sine wave)
AC output	Output: 1Vrms(F.S), Output impedance: 600 Ω , Load impedance: more than 10k Ω
DC output	Output: 2.5V(F.S), 0.25V/10dB, Output impedance: 50 Ω , Load impedance: more than 10k Ω
I/O	Interface:RS-232C(asynchronous) data bits:8bits stop bit:1bit parity:none baud rate:4800, 9600, 19200bps (for printing, computer control and data transfer.)
Battery Type	Four 1.5V size-AA batteries Consumption current;When AC adaptor is used ; Approx.2.1VA
Battery life	Alkaline batteries:20 hours, Manganese batteries:10 hours when switch on a back light;Approx.1/3
Operating temperature	Temperature: -10~50°C Humidity: Unlimited
Size	85(W) \times 284(H) \times 46(D)
Weight	Approx.420g(including Batteries)

Standard configuration

1. Main Body
2. Extension cable (3m)
3. Windscreen
4. Carrying Case
5. Batteries
6. Strap
7. Instruction Manual



Option

Sound
Calibrator



Tripod exclusively
for sound level meter



BNC pin cord



Extension
cable



AC adapter



Environment

1. Operating temperature	-10°C~+50°C
2. Operating humidity	Unlimited
3. Battery life	20 hours (Alkaline batteries) 10 hours (Manganese batteries)
4. PC connectivity	RS-232C(asynchronous) data bits:8bits stop bit:1bit parity:none baud rate:4800, 9600, 19200bps
5. Analytical equipment connectivity	AC:1Vrms(F.S) Output impedance 600 Ω Load impedance :more than 10k Ω DC:2.5V(F.S) Output impedance 50 Ω Load impedance :more than 10k Ω

