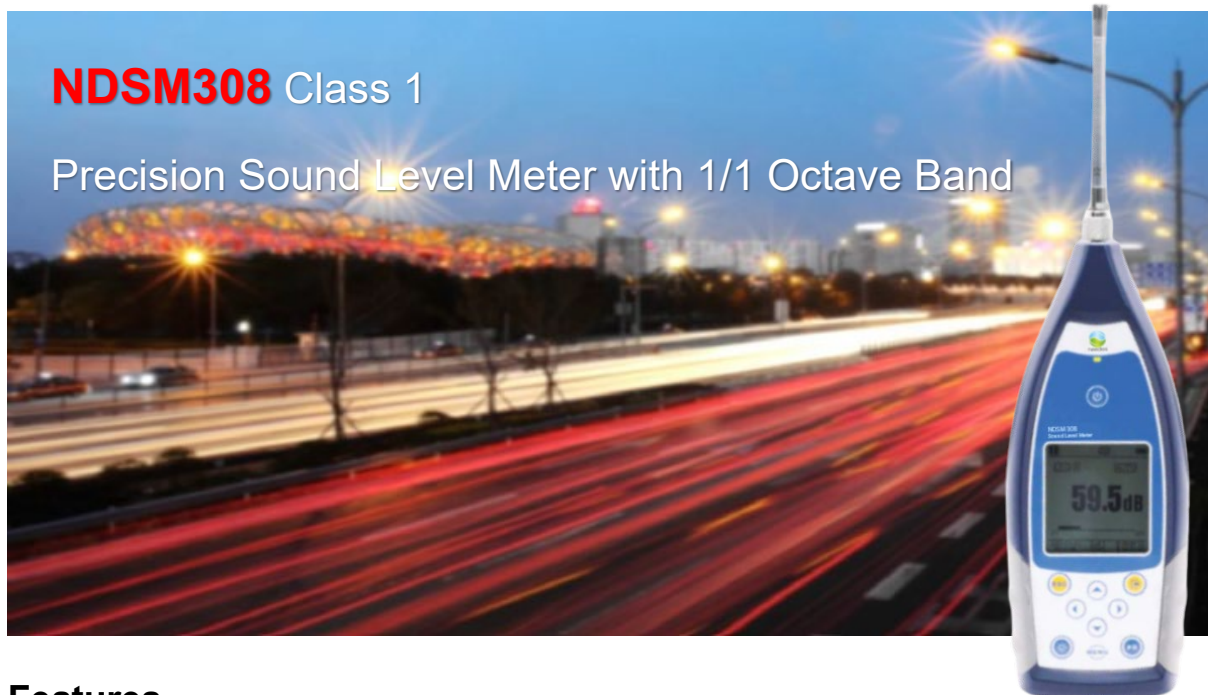


NDSM308 Class 1

Precision Sound Level Meter with 1/1 Octave Band



Features:

- Class 1 sound level meter Comply with IEC 61672-1:2013, ANSI S1.4-1983 and ANSI S1.43-1997
- Real-time 1/1 and 1/3 Octave in accordance with IEC 61260-1:2014 and ANSI S1.11-2004
- Linearity range: 28 dBA~143 dBA
- Single range to cover 123 dB dynamic range
- Frequency weighting: A / B / C / Z. Time weighting: Fast / Slow / Impulse
- 3 profile and 14 custom define measurement are calculate in parallel with different frequency/time weighting
- Calculate SPL, LEQ, Max, Min, Peak, SD, SEL, E, Lday, Levening, Lnight, Ldn, Lden
- LN statistical and time history curve display
- 32 G MicroSD (TF) card mass storage
- RS-232 remote control port
- Mini thermal printer for measurement data print
- Internal GPS module (option), support GPS timing

Application:

- Basic noise measurement
- Environmental noise assessment
- Product quality check
- Evaluation of noise reduction engineering
- For workplace monitoring and measurement in accordance with the standards of the Department of Labour Protection and Welfare, Thailand
- For environmental quality monitoring in accordance with the standards of the Pollution Control Department and the Department of Industrial Works, Thailand.

NDSM308 is Class 1 instruments and certificated by the China CPA (Certification of Pattern Approval) and CMC (China Metrology Certification).

The improvement of new **NDSM308**:

➤ Single chip high speed ARM with FPU	➤ USB port function implemented
➤ White backlight LCD	➤ Update firmware via USB (also power supply)
➤ Integral period from 1s~24h	➤ Timer feature support auto measurement
➤ 0.1 s, 0.2 s, 0.5 s logger step added	➤ Internal GPS (option) with GPS timing
➤ 5 templates to save user setting	➤ Single range to cover 123 dB dynamic range
➤ B-weighting added to meet ANSI standard	➤ Reduce the noise floor (only for Class 1)
➤ Automatic power on with external supply, ease of integration	➤ Upper limit of measurement: 143 dB _{Rms} /146 dB _{Peak}

Specifications	
Type	NDSM308
Accuracy	Class 1 (Group X)
Standard	GB/T 3785.1-2010, IEC 60651:1979, IEC 60804:2000, IEC 61672-1:2013, ANSI S1.4-1983, ANSI S1.43-1997
Octave	Real-time 1/1 Octave (Option): 8 Hz~16 kHz, Real-time 1/3 Octave (Option): 6.3 Hz~20 kHz
Supplied Microphone	GB/T 3241-2010, IEC 61260-1:2014, ANSI S1.11-2004. Base 10 system. MPA241T: 1/2" pre-polarized microphone, Class 1. Sensitivity: 17.8 mV/Pa.
Mic Interface	Frequency Range: 6.3 Hz~20 kHz.
Detector / Filter	TNC connector with ICCP power supply (4 mA)
Integral Period	Fully float-point digital signal processing (digital detector and filter)
Logger Step	Infinite or 1 s~24 h user define integral period. Repeat time: Infinite or 1~9999
Measurement Functions	0.1 s, 0.2 s, 0.5 s, 1 s~24 h (Optional function)
24 h Measurement	L _{XY(SPL)} , L _{Xeq} , L _{Xeq1s} , L _{Xleq} , L _{XYSD} , L _{XSEL} , L _{XE} , L _{XYmax} , L _{XYmin} , L _{XPeak} , L _{Day} , L _{Evening} , L _{Night} , L _{dn} , L _{den} , L _{XYN} . Where X is the frequency weighting: A, B, C, Z; Y is time weighting: F, S, I; N is the statistical percentage: 1~99.3 profile and 14 custom (All above are optional functions, except for L _{XY(SPL)} , L _{Xeq} , L _{XYmax} , L _{XYmin} , L _{XPeak})
Frequency Weighting	Automatic measurement based on user define date/time and save the history data
Time Weighting	Parallel A, B, C, Z (It can also be applied to 1/1 and 1/3 Octave)
Upper Limit	Parallel F, S, I and Peak detection
Frequency Response	143 dB
Level Linearity Range	10 Hz~20 kHz
Dynamic Range	28 dB(A)~143 dB, Octave: 36 dB~143 dB
	123 dB (20 dB(A)~143 dB)

Made in China: Manufacturer of BSWA Technology Co., Ltd. Room 1003, North Ring Center, No.18 Yumin Road, Xicheng District, Beijing 100029
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