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WiFi NOISE DECIBEL NOISE SENSOR MOBILE
PLACID PWSNM01

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PLACID WiFi NOISE DECIBEL NOISE SENSOR MOBILE PWSNM - 01

ENHANCED 4CH 8CH WIFI
NOISE DECIBEL NOISE
SENSOR MOBILE APP
REMOTE ANALOG



APPLICATIONS

The wireless noise monitoring module is designed with the IEC61672-1:2002 requirements. The sound level meter is predominantly used for onsite, Realtime measurements for various sound sources such as environmental noise, traffic noise, industrial noise, occupational noise, construction noise etc.



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DATASHEET PWSNM - 01



SPECIFICATION

Operating Voltage	5 V
Power Consumption	18.9 mA
Operating Temperature	-20°C-+60°C, 0~80% RH
Output Signal	Analog Output Occupancy: A1, A2, A3, A4, A5 Five Choices
Measuring Range	30 dB – 120 dB
Frequency Weighting	A-weighted
Frequency Response Range	20 Hz – 12.5 kHz
Stability	Less than 2% in the service life
Reference Calibration Point	94 dB and 114 dB calibration, reference sound pressure 20 uPa frequency 1 kHz
Noise Accuracy	±0.5 dB (at reference pitch, 94db @ 1khz)
Dust cover effect	Impact ≤0.5 dB in the range of 50 – 115 dB Influence in other ranges within the measuring range 0.7 dB

WORKING ENVIRONMENT

Air Temperature	-40°C-+60°C
Relative Humidity	25% - 90%
Static Pressure	65 kPa – 106 kPa
	No Strong mechanical vibration, shock, strong electromagnetic field and corrosive gas around exist



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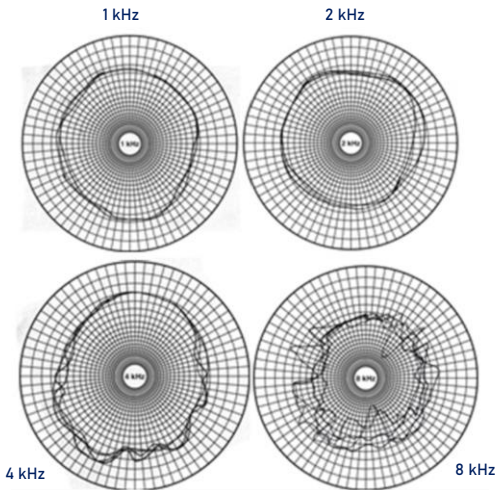
SPECIFICATION

Adjustment of pressure response and free field response

The sound pressure response generated by the sound calibrator or the simulated sound pressure response generated by the electrostatic coupler can be obtained by adjusting the data in the following table to obtain the equivalent free field response

Frequency dB	Free Field Increment dB	Frequency kHz	Free Field Increment dB
1	0.2	6.3	2.2
1.25	0.3	8	3.4
1.6	0.4	10	5.0
2	0.5	12.5	6.2
2.5	0.7	16	7.6
3.15	0.9	18	8.4
4	1.3	20	9.0
5	1.8	-	-

Module directivity at
1kHz, 2kHz, 4kHz, 8kHz



Free Field sensitivity

About 8 mV/Pa (Free Field is -42dB in several degrees, with IV as reference)

Electret Capacitance

About 15 pF



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