

KNM01

Type 1 Sound Level Meter

Introducing the KNM01. An Australian Design, Australian built Type 1 Sound Level Meter. Designed from the ground up to provide industry leading connectivity and IIOT interface, the KNM01 is ready to provide accurate, reliable noise monitoring and measurements for all industry areas.



- ✓ Industrial IOT

✓ Environmental Impact

✓ Developments

✓ Occupational Noise
- ✓ Compliance

✓ Construction

✓ Audits

✓ Permanent monitoring

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Instralabs is proud to present the KNM01 Type 1 sound level meter with inbuilt wifi, mesh networking, and MQTT data streaming. Representing the latest technology in IIOT and compliance measurements, the KNM01 is designed to exceed the requirements of AS IEC 60672.

The KNM01 has been designed from the ground up to be a high-reliability sound level meter capable of operating in the harsh Australian conditions. Providing measurements Leq, Max, Min, SEL, Peak, along with statistics, 1 second Leq logging, audio recording, all on dual channels, and spectral analysis on channel 1, the KNM01 is ready to meet the measurement requirements of any situation.



Over the air remote control is standard to enable remote management and configuration of the device.

When combined with an environmental monitoring system such as Matrix Hub, or your own in-house IOT solution, the KNM01 provides you with a highly flexible, low power, accurate noise monitoring solution.

Addition of a small solar panel gives indefinite monitoring length, and we have a range of 4G and satellite connection options for remote data applications.

Specifications

Frequency Range	20Hz - 20kHz	Interface options	Touch screen, USB Serial, Wifi, Mesh, Headphone
Dynamic Range	18-140dB	Storage device	SD card
Number of channels	2	Maximum storage capacity	256GB
Reported Metrics		Maximum storage duration (approx)	10 years
Frequency weighting	A, C, Z	Power consumption (approx)	1W
Time weighting	F, S, I	Maximum internal battery runtime	2 days
Metrics	Eq, Max, Min, Peak, SEL, L1, L5, L10, L50, L90, L95, L99	Charge time	6 hours
Logging	1 Second Leq	Charge current	3A
Audio recording	Wave or compressed	Charge Cable	USB C
Measurement rate	Continuous or triggered	Wireless streaming format	Stored as JSON or CSV
Spectral analysis	1s - 24hr adjustable		MQTT with JSON or CSV payload
Dimensions (L,W,H)	1/3 octave Leq (20Hz - 20kHz)		
	280 x 80 x 50 mm		

