

MIC-S01 is a high-precision Class 1 sound level microphone featuring a digital MEMS microphone. It is equipped with a powerful DSP engine with built-in equalization and filtering, as well as real-time percentile calculations and FFT with sampling rates of up to 48 kHz.

The internal memory consists of 512 MB of flash storage.

MIC-S01 features low power consumption, a serial host interface, and multiple configuration and control functions.

MIC-S01 is the ideal companion for the GSS 5GV but can also operate as a standalone device when required. MIC-S01 is developed by Global Sensing Solutions Limited.



Class 1 microphone IEC61672



Rugged aluminium housing



Supports firmware upgrades



Real-time analysis

FEATURES

- Digital MEMS microphone technology for long-term stability and low temperature drift
- Omnidirectional free-field microphone for accurate angle-independent measurements
- Flat frequency response (10 Hz – 20 kHz) with precise digital equalization
- Frequency range: 20 Hz – 20 kHz
- Sampling rate: 8 kHz – 48 kHz
- High signal-to-noise ratio: 64.5 dB(A) for clear measurements even at low sound levels
- Low distortion: 2.2% at 115 dB SPL
- Acoustic overload level up to 120 dB SPL
- Fast and Slow time weighting (100 ms / 1 s) compliant with standards
- Short-term Leq support: 100 ms and 125 ms
- Real-time calculation of acoustic parameters:
 - Leq, LeqAv, Lmin, Lmax, L1, L5, L10, L50, L90, L95, L99
- Built-in FFT analysis and digital signal processing (DSP)
- Configurable dBA trigger threshold (50–100 dB(A))
- 16 MB internal buffer for secure data acquisition
- 512 MB internal flash storage
- Up to 30 minutes of audio recording at 48 kHz
- Built-in real-time clock (RTC)

