62.8dB

56.5dB

NOISE MONITORING

MATRIX HUB

Making Monitoring Easy

NOISE MONITORING SYSTEMS

RELIABLE AND ACCURATE

Reliable and accurate noise monitoring is an essential requirement for environmental compliance. Matrix Hub is a system that integrates multiple sensors, real-time data, graphing and reporting, as well as alerting functionality. Sensors and measurement equipment comply with international and Australian standards, seamlessly transmit data to online servers and create live monitoring views and reports.

REAL–TIME LIVE DATA AND EASY MANAGEMENT

Ensuring that real-time data is available to your key people can significantly reduce project, schedule, and financial risks associated with community upset and legislative non-conformance. Matrix Hub noise monitoring systems provide immediate vision on the impacts of noise. Real-time results, instant multiple-level alerting, and fully automated reporting makes managing noise impacts easy. Live audio recordings can be immediately reviewed to determine whether noise impacts are project-related or from an external source. Users can easily tag measurements as influenced by external noise sources and provide comments on the nature of the noise. All tags and comments are automatically included in generated reports along with audit tracking of the reviewers.

UNLIMITED ACCESS

Users have access to live data anywhere in the world with an internet connection. Through the Hub, the live data from multiple projects, multiple sites, and multiple sensors are all immediately visible. Critical information is observable at a glance meaning you can keep your attention focused on where it needs to be.

AUTOMATIC REPORTING

The system automatically generates complete noise reports that can be published and stored within the Hub and also exported as PDF documents. Reporting is compliant with the general requirements of AS1055 and automatically calculates the overall metrics of the measurement period including averages and Rating Background Level.

___

Matrix Hub is the premier option for accurate, real-time environmental monitoring and reporting.

___

NOISE MONITORING

Noise monitoring stations are available in mobile, trailer and permanent configurations. Stations can be equipped with a local weather station that is automatically linked with the noise data to exclude any inclement weather events.

Two reporting levels are available, and both are able to include full audio recording capability.

Compliance noise monitoring is designed to fulfil the requirements of basic project noise monitoring. Advanced noise monitoring adds additional time and frequency weightings, as well as additional statistical measurements, and third-octave data.

NOISE MONITORING STATION SPECIFICATIONS

OPTION	DETAILS	COMPLIANCE NOISE MONITORING	ADVANCE NOISE MONITORING
Compliance Standards	• IEC 61672, IEC 60651, IEC 60804, IEC 61260, ISO 2969 (Class 1)	✓	✓
	• China: GB/T 3785:2010, GB/T 3241, GB 3096-2008, GB 50526, GBT_4959-1995	✓	✓
	• Germany: DIN 15905-5, DIN 45645-2, optional: DIN 45645-1		✓
	• Japan: JIS C1509-1:2005, JIS C 1513 class 1, JIS C 1514 class 0		✓
	• Switzerland: SLV		✓
	• UK: BS6698, BS5969		✓
	• US: ANSI S1.4, ANSI S1.43, ANSI S1.11-2004 class 1		✓
Resolution	Measurement bandwidth (-3dB): Level resolution: Internal noise:	20Hz – 20kHz 0.1 dB <25dB(A) (Typ:18)	4.4 Hz - 23.6 kHz 0.1 dB 1.3 µV A-Weighted
Weightings	Frequency weighting: Time weighting:	A or C or Z Fast or Slow or Impulse (CPeak always available)	A, C, Z (simultaneous) Fast, Slow, Impulse (simultaneous)
Microphone	Type	½" Pre-polarised Condenser	½" Pre-polarised Condenser
Measurement range		25(A) – 130(A)	17dB(A) – 138dB(A)
Sample frequency		-	48kHz
Bit depth		-	24Bit
Operational temperature		-10 to 50 oC	-10 to 50 oC
Typical sensitivity		50mV/PA	-27.5 dBV/Pa (42mV/Pa)
Temperature coefficient		-	< -0.01 dB / oC
Long term stability		-	> 250 years/dB
Measurement Metrics		Leq, Lmax, Lmin, L1, L10, L50, L90, L99	Leq, Lmax, Lmin, L1, L5, L10, L50, L90, L95, L99
Fractional frequency metrics		Nil	3rd Octave for: Leq, Lmax, Lmin, L1, L10, L50, L90, L95, L99

Matrix Hub is proudly designed, built, and coded in Australia. Our industry associations and connections have helped shape Matrix Hub into a globally leading environmental monitoring platform. **We greatly value these associations.**

MATRIX HUB
Making Monitoring Easy

📍 2/193 South Pine Road, Brendale, QLD 4500

📞 07 3737 7699

✉️ sales@matrixhub.com.au

🌐 cloud.matrixhub.com.au