

QUANTUM INDOOR NOISE MONITOR

Quantum Indoor is a powerful noise monitoring solution with built-in cloud connectivity, perfectly suited for unattended indoor noise monitoring across a range of applications. Quantum Indoor can be used for: long-term occupational noise monitoring; identifying the source and type of noise that is occurring, and highlighting where noise control measures are required.



FEATURES

Class 2 indoor noise monitor to IEC 61672-1: 2013

Class 1 variant available

Cloud connectivity to Cirrus Research's unique MyCirrus cloud platform

View live measurements from multiple Quantum units simultaneously

Upload site maps and/or site plans to see all your connected devices

1:1 and 1:3 octave band filters for detailed environmental analysis

Schedule your measurement times and set repeat measurement durations of 5, 15 and 30 minutes or 1 hour

Real-time SMS, email, webhook and push notification alerts based on user-defined noise level triggers

Upload and store historical noise data

Export historical data into Cirrus Research's NoiseTools software for further analysis and reporting

Over-the-air updates

Connectivity via Ethernet

Power over Ethernet

Flexible cloud subscription levels for each individual unit on your Quantum network

Electronic calibration certificates available through MyCirrus



CLOUD-BASED NOISE MONITORING FOR ANY INDOOR APPLICATION

- Measures everything you need for comprehensive indoor noise measurements
- Sends all that data it captures directly to Cirrus Research's own cloud platform, allowing you to view live noise measurement information wherever you are, whenever you need it
- View and analyse historic data and create detailed reports, directly from the MyCirrus cloud platform
- Class 2 to IEC 61672-1: 2013, with a Class 1 version available
- Real-time notifications via text message and email, or through the dedicated MyCirrus smartphone mobile applications
- Small and discreet design makes it perfect for installation in any indoor setting

TAKE YOUR NOISE MONITORING PROGRAMME TO THE NEXT LEVEL

Quantum Indoor is a powerful noise monitoring solution with built-in cloud connectivity, perfectly suited for unattended indoor noise monitoring across a range of applications. Quantum Indoor can be used for: long-term occupational noise monitoring; identifying the source and type of noise that is occurring, and highlighting where noise control measures are required.

Quantum Indoor is the perfect complementary solution to any existing noise monitoring regime as it offers all the freedom and benefits that come with remote outdoor noise monitors but is specifically designed for an indoor application. It provides a constant ear to the ground, constantly capturing and storing noise data on the MyCirrus cloud platform for you to access whenever you need it. You can also set up comprehensive event-based triggers to capture audio recordings and send alerts to users, allowing you to react to and control noise events in real time.

Quantum Indoor is available with flexible subscription plans, allowing you to increase the amount of data you can store as well as enhance the functionality of your Quantum noise monitoring network.

LINK MULTIPLE MONITORS

You can use a single Quantum Indoor monitor or link several units to create a cloud-connected network of noise monitors, allowing you to get the full picture of the impact noise is having on your site.

Using Quantum portal, you can see a live noise map using the Floor Plan view, perfect for seeing noise levels where they're occurring and providing context for your measurement data. The floor plan allows you to respond in real time to noise events and identify potential areas of concern before they pose significant risks.



VIEW LIVE AND HISTORICAL DATA

Each Quantum Indoor unit communicates with the MyCirrus cloud platform, sending noise data to it every second. This data is then displayed in the live feed on Quantum portal, allowing you to view it remotely around the clock, from any device, anywhere in the world.

If you're using set measurements, you can view your time history and octave band data, which is stored on MyCirrus, along with any audio data recorded during the measurement period.



AUDIO TRIGGERS AND REAL-TIME NOTIFICATIONS

You can set up several noise-based event triggers for audio capture and real-time alerts, based on your own set of conditions for acceptable noise emissions. Notifications can be set up to be sent via automated email, SMS and push notifications through our dedicated smartphone application, allowing for noise issues to be controlled before a non-compliance condition arises.

Audio recordings are made when a noise event is triggered, so you can review and identify the noise source easily. Each recording can be played back from within the Quantum portal or downloaded to your PC/laptop for more in-depth analysis.



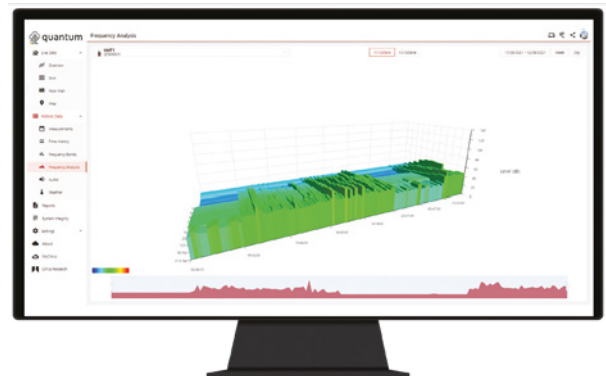
CREATE DETAILED REPORTS TO HELP MAKE BETTER DECISIONS

From within the Quantum portal, you can create detailed noise reports based on the data captured by your Quantum Indoor units. Several standard reports are available from the Quantum portal, with further user-definable options planned for a future release. You can also export your data to our incredibly powerful licence-free reporting software, NoiseTools, for further indepth analysis of your noise data. You are also able to customise your reports with your organisation's branding for a more tailored and professional look.

NOISE FREQUENCY ANALYSIS WITH OCTAVE BAND FILTERS

Quantum Indoor captures both 1:1 and 1:3 octave band data alongside all other noise measurement parameters, which is stored in and accessible through the Quantum portal. This information allows you to analyse your noise data in greater detail to better understand the nature of the noise and its potential implications.

You can use the frequency analysis screen in Quantum portal to view your frequency data in exquisite detail. Explore each peak and trough in a fully navigable 3D model.



CLOUD SUBSCRIPTIONS

No fixed fees and no set up charges!

We offer subscription packages that are flexible to fit in with your noise monitoring programme and your preferred level of usage. With our flexible plans, you have the ability to change your subscription up or down on a monthly basis.

Subscription tiers:

- Standard subscription - supplied as standard for 1 year
- Pro subscription - upgrade to include more features
- Data retention only - secure storage for the data on our cloud storage system (only available after the first year)



FULL SPECIFICATIONS

Applicable Standards

IEC 61672-1: 2013 (Class 1 - CR:901)
IEC 61672-1: 2013 (Class 2 - CR:900)
IEC 61260: 1995 (1:1 and 1:3 octave band filters)
ANSI S1.4 - 1983 (R2006)
ANSI S1.43 - 1997 (R2007)
ANSI S1.11 - 2004 (1:1 and 1:3 octave band filters)

EMC

EN 61000-6-3: 2007+A1: 2011
EN 61000-6-1: 2007

Microphone

MK:224 pre-polarised

Measurement Range

20 to 140dB RMS in a single range

Noise Floor

<19dB(A) Class 1 | <22dB(A) Class 2

Frequency Weightings

RMS & Peak: A, C & Z measured in parallel
1:1 octave bands: 31.5Hz to 16kHz
1:3 octave bands: 6.3Hz to 20kHz

Time Weightings

Simultaneous Fast, Slow and Impulse
Time history data rates
10ms, 100ms, ½ sec, 1 sec

Live Data Refresh Rate

1 sec

Live Data View

Noise at work (LAF, LAeq & LCPeak)
Environmental (LAF & LAeq)
Custom (LAeq, LCeq, LZeq, LAFMax,
LASMax, LCPeak & LZPeak)

Measurement Control

User-definable scheduled measurements &
user-selectable 5min, 15min, 30min, 1hr repeat timers

Dimensions and Weight

127 X 360 X 66mm | 1.2 kg

Audio Quality

Standard (16bit/16kHz) | High (24bit/48kHz)

Stored Values

LAeq, LCeq, LZeq, C-A, LAE, LEX8, LAFMax, LASMax,
LCPeak, LAF1, LAF5, LAF10, LAF50, LAF95, LAF99,
LAeqT1 & LAeqT2
1:1 octave bands: 31.5Hz to 16kHz
1:3 octave bands: 6.3Hz to 20kHz
Time history of 1:1 & 1:3 octave bands Audio

Integrators

<19dB(A) Class 1 | <22dB(A) Class 2

Frequency Weightings

User-selectable dual integrators: OSHA HC, OSHA
PEL, MSHA HC, MSHA PEL, ACGIH, Custom A &
Custom B

Moving Average

User-selectable: 5 min, 15min, 30min, 60min

Mounting

DIN rail (standard)
Wall mount
Pole mount
Tripod mount

Memory

4GB standard - 30 days of measurement data or 24
hours of standard audio

Power

PoE IEEE 802.3af-2003 37V-57V

Power Consumption

Approx. 5w

Operating Conditions

Temperature: -10°C to +50°C (operating)
-20°C to +60°C (storage)

Humidity: Up to 95% RH non-condensing

Network Connection

Ethernet
Dual-band WiFi (2.4GHz & 5GHz)
Bluetooth

Schauenburg Systems (Pty) Ltd
26 Spartan Road, Spartan Ext,21
Kempton Park, 1619
Tel: +27 (11) 974-0006
Email: sales@schauenburg.co.za



SCHAUBURG
Systems