

### MK:427 Noisesensor

Data Sheet



#### **Features and Benefits**

- **Reliable:** Robust, weatherproof, reliable in harsh outdoor environments.
- Ease of use: Eliminates the need for third party software. Straightforward integration with 4-20mA current loop systems.
- Accurate: Meets the requirements of IEC 61672-1:2002.

The MK:427 Noisesensor is an accurate, reliable and weather proofed self-contained outdoor environmental noise monitor that connects directly to process measurement and control systems.



## MK:427 Noisesensor

The complete solution for monitoring noise

#### Integration with Existing Process Monitoring and Control Systems

Many industrial plants have a variety of process sensors strategically placed around their site so that safety, environmental impact and efficiency can be monitored and managed, in real time, from one or more control rooms.

The Cirrus Environmental Noisesensor can be connected with unparalleled ease to such a system sending out continuous live data.



#### **Applications**

The Noisesensor is ideal for permanent or semi-permanent environmental noise monitoring applications such as power stations, manufacturing sites, petrochemical sites, construction sites, urban noise monitoring etc.

Cirrus Environmental Unit 2 Bridlington Road Industrial Estate Hunmanby North Yorkshire UK YO14 0PH It is also ideal for companies wishing to integrate noise monitoring into their existing environmental logging products.

### Live Noise Data to SCADA or DCS Systems

Unlike a conventional Sound Level Meter, the Noisesensor simply converts the noise level in decibels into an industry standard 4-20mA output, which can in turn be fed directly into a SCADA-type control system. The live noise levels can then be displayed and stored using your own system software, eliminating the problem of installing third party software where the complexity of extra software systems or security could be an issue.

#### Permanent and Reliable Outdoor Performance

The pure-analogue electronics are highly reliable and operate without any user intervention. No specialist acoustic knowledge is required – simply power-up the Noisesensor and the measured noise level is continuously fed to the output.

The outdoor microphone assembly has proven reliability for long term permanent use even in the harshest of outdoor environments where upgrade to the WS:73 extreme condition windshield is recommended.

#### Automatic Self Calibrating System

The electrostatic calibration system provides automated remote calibration of the system using a simple +5V trigger. This allows the performance of the system to be routinely verified which ensures compliance with international standards and is both time saving and especially useful where the unit is installed in a difficult to access location.

#### **Ease of Installation**

Installation is straightforward using either the standard mounting equipment supplied which consists of two 'U-bolt' kits and three 'Jubilee clips'.

We also offer an upgrade option, the 'CM:427 Wall Mounting Kit' for those wishing to fix the unit to a building face or wall.



For expert advice and simple solutions contact Cirrus Enviromental on +44 1723 891722, visit us at www.cirrus-environmental.com or email us at sales@cirrus-environmental.com



# MK:427 Noisesensor

Specification and Options



A number of MK:427 units have been supplied to a large industrial site where there was a need to feed live noise information into an existing system. The robust design and simple interface made the MK:427 ideal for this application and provides the operator with a reliable and simple way to monitor and display live noise levels along with the other data vital for the operation of the site.

#### Effective Noise Monitoring Solution

Given the ever increasing need to accurately monitor and control the environmental noise impact generated by industrial processes and sites, the Class 1 MK:427 Noisesensor affords companies an effective means of managing and controlling noise levels.

	Specification
Output Type	'A' weighting SPL output in the form of a 4-20mA loop
Frequency Weighting	dB(A) to IEC 61672-1:2002
Time Weighting	Factory set to Fast ('F') IEC 61672-1:2002
Automatic Calibration	Electrostatic Actuator System with DC voltage control
Measurement Range	30 – 100dB(A) (other options available)
Current Loop Output	lout = 0.1mA/dB
Dimensions	1m length
Weight	4.5 Kg
Mounting	240mm x 30mm diameter pole Mounting Kit provided (2 U-brackets, 4 nuts, 3 Jubilee Clips)
External Power	+12V DC in
Ouput Cable	10m as standard. Other cable lengths are available
	Options
Factory Option	Time Weighting set to Slow ('S') IEC 61672-1:2002
Upgrade Option	CM:427 Wall mounting kit
Upgrade Option	WS:73 Extreme condition windshield

Cirrus have 40 years experience in the design, manufacture and support of noise measurement equipment and have been responsible for many innovations during this period.

Initial

consultation

& planning

Installation

of suitable

hardware and

software

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Technical

support and

backup

Help with

interpretation

of results

Maintenance

& recalibration

of system

Full training

on the

correct use

of the system