

# Environmental Noise Sensor

## NoiseSensor<sup>LITE</sup>

POWER  
GENERATION

MOTORSPORT  
NOISE

CONSTRUCTION  
NOISE

AVIATION  
NOISE

The MK:440 NoiseSensorLITE is a compact, light and easy-to-deploy noise monitoring instrument, perfect for measuring and monitoring environmental noise. The MK440 is an integrating instrument, meaning it can be added to existing PLC data logging and monitoring systems with relative ease, reducing lengthy and complicated setup procedures. Any significant changes in noise levels will be highlighted immediately, allowing you to act quickly and more effectively.

**There's no complicated setup procedure. Just plug it into your current system, and start!**

### Key features:

- Simple to use
- Lightweight and compact
- Easy to install and set up
- Designed specifically for integration into existing systems
- No user-intervention required to record noise levels
- Weatherproof
- No need for third-party software

### Specifications in brief

Output type	A weighting SPL in 4-20mA loop
Frequency weighting	dB(A), dB(C), dB(Z)
External Power	12 to 24V DC
Cable Entry	1/2" NPT or M20 Gland
Measurement range - selectable at factory	74-144 dB 64-134 dB 54-124 dB 44-114 dB 34-104 dB 24-94 dB
Operating temperature	-10 to +50°C

### Why choose Cirrus Research?

- 1) Providing sound solutions since 1970
- 2) UK-based in-house team of experts on-hand to offer help, support, guidance and training
- 3) Rental options available
- 4) Bespoke turn-key solutions available
- 5) We supply quality equipment that is trusted by customers all around the world

Integrate noise monitoring into your data logging system and start measuring the impact your noise has on the environment.



## The ultimate tool for environmental noise

The MK:440 NoiseSensor<sup>LITE</sup> is a robust weatherproof outdoor noise monitor, which converts the measured noise level to decibels and provides a standard 4-20mA output, suitable for various process systems including SCADA and DCS.

The measurement range has a factory-selectable 70dB span, making it ideal for measuring and detecting noise events. The high-reliability pure analogue noise monitor requires little user intervention and features an easy to remove rain protection windshield and housing for easy calibration.

### Electrical connections:

The MK440 is supplied with either a ½" NPT female thread to facilitate fully-protected cabling using standard ½" piping or M20 gland for standard cable entry. Four connections are required to the unit, for power and the 4-20mA control loop. These connections can be made by wiring directly to the internal PCB via the screw terminals supplied.

### Mounting options:

The available mounting accessories include U-bolts for vertical and horizontal pipes and a wall mounting bracket. For the best noise monitoring performance we recommend mounting the MK:440 away from other surfaces, which may reflect noise levels and therefore produce inaccurate measurements.

### Intrinsic safety certification:

The NoiseSensorLITE has been certified safe for use in Class 1 Division 2 hazardous environments, which include locations like mines, gas pumps and stations, processing plants, and food and beverage manufacturing locations.



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