

MK440 ENVIRONMENTAL NOISE MONITOR

The MK440 is a fixed environmental noise monitor that continuously measures ambient/workplace noise and outputs a standard 4-20 mA signal.

It is designed for easy integration into existing control or data-logging systems (DCS / SCADA / PLC), rather than being a hand-held instrument.



FEATURES

Provides “A”-weighted sound level in dB(A), output as 4-20 mA for seamless integration.

Factory-selectable measurement ranges (e.g. 24–94 dB up to 64–134 dB) to suit different noise environments.

Time-weighting selectable at factory (fast or slow) depending on measurement needs.

Compact and lightweight, simple to install with no onboard controls or displays — once connected it just runs.

Suitable for indoor or outdoor use; IP-rated for weather/dust protection.

Certified safe for hazardous environments: approved as non-incendive for use in zones such as Class 1 Division 2 (typical in mines, plants) — important when explosive gases/dust may be present.



WHY MINES / INDUSTRIAL SITES CHOOSE IT

1 Because it integrates directly into existing control / logging systems, allowing continuous, automatic noise monitoring without human intervention — ideal for 24/7 operations.

2 Its hazardous-area certification makes it safe for use in mines, processing plants, or other potentially explosive atmospheres.

3 Being fixed, durable, weatherproof and low-maintenance — it's practical for long-term deployment outdoors or underground, especially around plant operations or mining equipment.

4 The standard output simplifies compliance reporting: noise data becomes part of overall site monitoring and control systems.

THE ULTIMATE TOOL FOR ENVIRONMENTAL NOISE

The MK440 is a robust weatherproof outdoor noise monitor, which converts the measure 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 MK440 away from other surfaces, which may reflect noise levels and therefore produce inaccurate measurements.

SPECIFICATIONS

Output Type	A weighting SPL in 4-20mA loop
Frequency Weighting	db (A)
External Power	12 to 24V DC
Cable Entry	½" 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

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



SCHAUENBURG
Systems

A company of the SCHAUENBURG International Group

www.schauenburg.co.za