

ULTRASONIC LEAK DETECTOR - MODEL WA-EUS- 740

WISEAIR 4.0[®]
MEASURE TO MANAGE

2025

**Smart Measurement Solutions
for Compressed Air and Gases**

WISEAIR TECHNOLOGIES INDIA LLP

www.wiseair.in



About Us

Our Vision At WiseAir Technologies is to Offer Our Customers With Innovative and Advanced Measurement Solutions for Compressed Air and Gases at Affordable Costs. With Over 22 Years Experience in The Field of Compressed Air Management, We Have Developed Products that are More Accurate, Smart, Reliable, State-Of-The-Art and Easy to Use. We Aim to Transform The Traditional Manufacturing and Industrial Practices With Our Latest Smart Technologies. Hence We Primarily Focus On Offering Products Which Use Large-Scale Machine To Machine Communication (M2M) and Industrial Internet of Things (IIoT) To Provide Increased Automation, Improved Communication, Self Monitoring To Analyze and Diagnose Issues Without The Need For Human Intervention. Our “WA” Range of Smart IIOT Sensors, Can Be Easily Networked Together With Manufacturing And Energy Management Softwares. This Connectivity Allows For Seamless Data Collection, Exchange and Analysis To Potentially Facilitate Improvements In Productivity And Efficiency Resulting In Huge Economic Benefits.



Theory Of Ultrasonic Gas Leakage Detection

Technical Data

Human ear can hear sound frequency up to 18 KHz. The sound frequency above 20 KHz is categorized as ultrasonic sound which is not audible. Ultrasonic sound is very directional in nature. We can utilize this nature to pinpoint the exact origin of the sound source where the leak is located. Physics tells us that the gas always flows from the higher pressure region to the lower one. When the pressure difference is only a small opening, the turbulence created by the gas through the small hole then generates ultrasonic sound. In the non pressurized state, the ultrasonic transmitter is applicable, ultrasonic wave can leak from the small hole. Ultrasonic gas leakage detector is designed based on the above simple physics.

Parameter	Details
Leakage Sensitivity Indicator	LED display panel & audible tone (LED display provides relative measurement only). Audible tone reflects the frequency of received ultrasonic sound divided by 32.
Frequency Response	20 kHz to 100 kHz
Power Supply	4 x 1.5V AAA (UM-4) batteries
Power Consumption	Approximately DC 25 mA
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	Maximum 80% RH
Weight	Approx. 140 g (0.31 lb), including batteries
Dimensions (H x W x D)	236 x 63 x 26 mm (9.3 x 2.5 x 1.0 inches)

APPLICATIONS

Used for measuring Leakage of system. Applicable to detect Leaks in refrigeration and air condition systems, Leaks in heating system, Internal leaks in steam transfers, Compressed air leaks, Tire & tube leaks, Engine seals, Electrical arcing, The bearing problems, Bake system with the Ultrasonic transmitter, it is applicable to Air leaks around door & window gaskets & seals, Water leaks in roofs, Conduit & pipe identification, Door & trunk seals, Windshield leaks.

FEATURES

This Ultrasonic Gas Leakage Detector is designed to locate the source of the ultrasonic emissions generated by gas or air leaks. The leakage level is displayed by "LED Display Panel", and is covered to audible sound by either internal buzzer or to external optional earphone.

Our Network

Our Smart Sensors are Developed with Design and Technology Support from Our Partners Across North America, Europe and Asia. With Our Strong Network of Partners, we offer Seamless and Best-in-Class Service to Our Customers.



Artificial Intelligence & Machine Learning Software

Our software are programmed to analysis and self Diagnose the Measured Datas

Smart IIOT Sensors

For measurement of Flow, Power, Dew Point and Pressure

Product Experts

Product Specialists with Decades of Experience in Compressed Air Measurement and Management



For More Info
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**UNDERSTAND COMPRESSED AIR SYSTEM DYNAMIC
WITH OUR ADVANCED MEASUREMENT SOLUTIONS**

MEASURE – MANAGE – SAVE – SUSTAIN



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