

Ultrasonic Gas Leak Mapping Services

Incus Ultrasonic Gas Leak Detector

What is Mapping?

Ultrasonic gas leak mapping is a service offered to measure and record the background ultrasound of process plant under normal operation. The information gathered along with gas pressure, gas temperature, and gas type is used to assess the likely detection radius of the Incus for client specified gas leak rates.

A mapping survey allows us to produce a report which will indicate the preferred detector location and the exact area covered by each detector. By carrying out a survey, it ensures all essential plant and equipment are covered by an ultrasonic gas leak detector, allowing each detector to be set at a specified level to eliminate potential false alarms.

Benefits

Green Field

- Enables initial UGLD count and positioning to be accurately estimated
- Easier final installation and commissioning as detectors will be in the right locations

Brown Field

- Accurately assesses how many UGLD are required and their approximate alarm settings
- Confirms specified area will be protected
- Identifies sporadic ultrasonic sound sources so time delay can be set

Survey Report

The survey report contains the following information:

- Description of the survey carried out
- Map or plan of the surveyed area together with proposed detector positioning
- Copies of the data taken at site
- Recommendations to mitigate site background noise
- Advice on specific detector alarm set points




Emerson technician with MT Mapping Tool.

Service and Support

Emerson survey technicians can attend both onshore and offshore installations to carry out a background noise survey. This confirms the general plant background noise and identifies high intensity ultrasonic sound generated by specific plant. This information is then loaded into our proprietary software program to confirm detector location and coverage.

An ultrasonic noise mapping survey is carried out in a live plant environment to ensure the layout of ultrasonic gas leak detector is optimized and alarm levels and time delays are set correctly.

www.Emerson.com/RosemountFlameGasDetection

 [YouTube.com/user/RosemountMeasurement](https://www.youtube.com/user/RosemountMeasurement)

 Analyticexpert.com

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