



**GREENBANK ENERGY
SOLUTIONS INC**

LA 202 Acoustic Leak Detection System

The Greenbank LA 202 Acoustic Leak Detection System is the longest standing monitoring system of its type available. Since 1974, there have been over three-hundred systems installed worldwide. The modular, expandable system has been designed to meet virtually every application requirement for performance and economy.

Research has proven that true acoustic measurement of sound level in a confined space is more accurate through a wider band width than indirect piezo measurement. However, to provide the ultimate system flexibility, Greenbank can provide either airborne or structure borne sensors as the application requires.



Airborne Sensor

A True Acoustic Microphone
Dual Output
4 mA to 20 mA DC
0 mA to 10 mA AC Remote Listening
Range - 54 dB to 114 dB
Capable of detecting a .10" leak from 40 Ft
Waveguide mounted
Internal Test Element
Individually Calibrated
Optional Waveguide Air Purge



Structure Borne Sensor

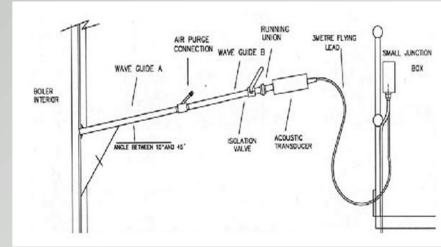
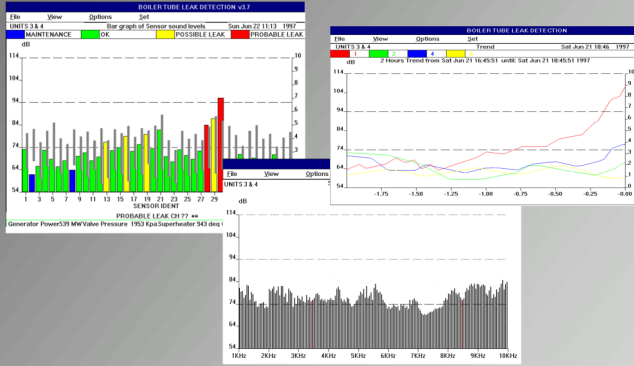
Piezo Sensor
Dual Output
4 mA to 20 mA DC
0 mA to 10 mA AC Remote Listening
Range - 74 dB to 114 dB
Clamp, Plate, or Waveguide Mounted

Accessories

Waveguides
Field Mounted Junction Boxes
Field Termination Panel
Multi-core Signal Cable
Control Room Acoustic Monitoring

Applications

Boiler Tube Steam Leaks
Compressed Gas Tank Farm Venting
Ammonia
Nitrogen
Chlorine
Natural Gas Storage Tank Overpressure
Safety Relief Valve Monitoring
Isolation Valve Leak Detection



Typical Sensor Installation

Monitor and Trend Realtime

System Features

- Acoustic Sensors function in positive, negative, or balanced draft furnaces
- System Output Signals are filtered for direct DCS connection
- Signal Scale is Logarithmic for greater dynamic range:
 - 1000 Times Change in Magnitude
- Internal test elements for total system dynamic testing
- Totally Modular for easy system expansion

System Architecture

