



**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

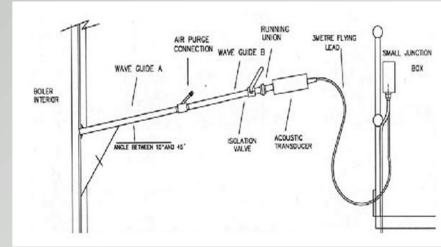
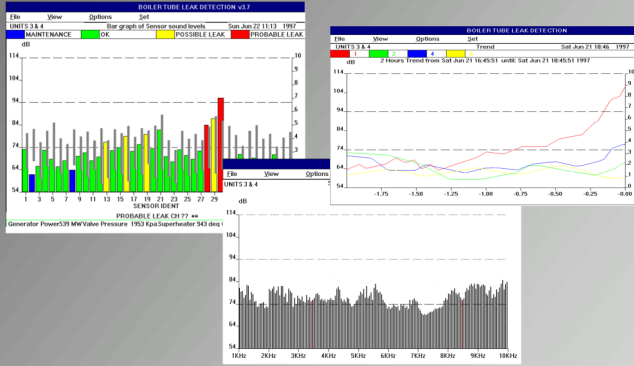
Piezo Sensor  
Dual Output  
4 mA to 20 mA DC  
0 mA to 10 mA AC Remote Listening  
Range - 74 dB to 114 dB  
Clamp, Plate, or Waveguide Mounted

## 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**

