



PS-2100

Ultrasonic Inspection System Leak Detector & Condition Monitor



The **PS-2100** is a state of the art digital ultrasonic leak detector and condition monitor used by maintenance personnel for scheduled maintenance, preventive and predictive maintenance (PPM) in industries such as: Energy, Chemicals, Pharmaceuticals, Food processing, Transportation, Marine, Aeronautics, Mining, Logging, Compressed Air and Steam Systems.

Incredible sound reproduction fidelity

The operating principle of the **PS-2100** is based on the detection and measurement of ultrasound and its conversion into audio for humans to hear. Ultrasound is generated in leaks, external & internal, friction in bearings & mechanisms and arcing & corona in electrical systems. The **PS-2100** will help you locate problems by detecting the ultrasounds they generate.

The **PS-2100** is the first instrument of its kind using two incorporated sensors for the detection of Air-borne Leak sounds and for the detection and location of Solid-borne sounds from leaks and bearing faults. The selection of sensors is software controlled.

The **PS-2100** uses two displays, a Bar-Graph Display with peak hold and an Alphanumeric Display for instrument settings and precision measurements.

The **PS-2100** detects air & gas leaks (Airborne Sensor) in the frequency Bands of: 26 kHz-34 kHz and 36 kHz-42 kHz and internal leaks (Touch Probe Sensor) in two ultrasonic bands: 16 kHz-24 kHz and 36 kHz-42 kHz. Additionally it has an industry exclusive Acoustic Band: 0-10kHz which makes the PS-2100 function like a stethoscope.

Applications

Leaks to and from the Atmosphere (AirBorne)	Internal Leaks and Friction Sounds (Structure Borne)
Compressed Air	Steam Traps & Steam Systems
Refrigeration Gasses (FREON-all types)	Valves of all Types
Vacuum Systems	Pressure Relief Valves
Cryogenic & Medical Gasses	Hydraulic Cylinders
Compressors	Hydraulic Controls and Proportional Valves
Air Brakes	Gaskets & O-Rings
Corona-Arcing	Pumps: Hydraulic, Water, Oil, Concrete, Mud, Effluent.
Coolers, Tanks, Isolation Chambers, Ship Hulls, Aircraft Fuselages, Windows and Doors.	Wear indication of Roller & Babbitt Bearings, Gears. Preventative and Predictive Maintenance PPM & TPM
For Additional Technical Specifications:	www.PlantScan.com

Special Features

The **PS-2100**:

- Is not affected by sonic sounds in the test area.
- Is not affected by gas concentrations in the test area because it detects the sound of a leak and not a chemical property.
- Is not affected by wind
- Is not invasive to the system under test.
- Capable of AUDIO ZOOM.



Roller Bearing Diagnosis with the PS-2100

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Internal Leak Detection with the PS-2100 in an LPG Valve