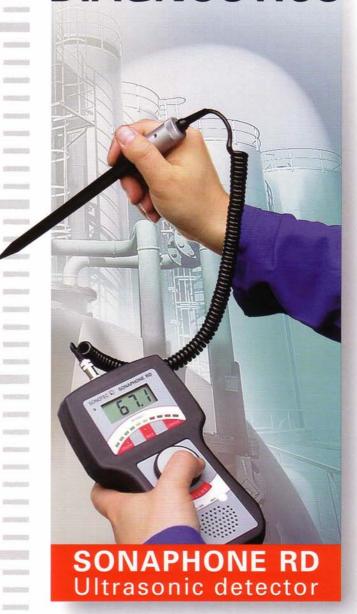
LEAK DETECTION FITTING SEAL INTEGRITY

-

BEARING DIAGNOSTICS



User friendly Quick response time Reliable Low cost



SONAPHONE RD Ultrasonic detector

LEAK DETECTION FITTING SEAL INTEGRITY **BEARING DIAGNOSTICS**

APPLICATIONS

Detection of leakages in compressed-air or vacuum systems

Saves energy costs

Applications in the field of motor and rail vehicles

- Location of leaks at compressed-air breaks or aggregates
- Sealing tests in cabins, doors, boot/trunk or cold storage chambers
- Check of fuel injection in diesel engines

In industry

- Verify steam pipes seales
- Seal integrity of fittings and condenser
- Search for faults in electrical insulation
- Detection of early wear in bearings with rotating parts

PRINCIPLES OF **OPERATION**

- At leakages the stream of gas or liquids in pipelines gives rise to internal friction and thus to the emission of ultrasonic waves. These high frequency signals can be precisely located. In the SONAPHONE they are transformed into audible or electrical signals
- In pressure less systems a small ultrasonic transmitter is inserted, the signals of which can pass leakages and are located with the SONAPHONE RD.
- Developing wear at bearings give rise to enhanced friction which is detectable with a body sound detector.

There is no problem to detect and locate leaks in compressed-air or steam systems with the SONAPHONE RD.

The recognition of pressure losses in any compressed-air or vacuum system is done with the ultrasonic probe; at difficult accessible locations a separate flexible probe is used.

The control of correct operation of gates, valves, ball taps, condenser drains and other fittings is fast and reliably done with body sound probes

YOUR **ADVANTAGE**

The ease of operation

The SONAPHONE RD allows fast and reliable checks. The received ultrasonic signals are transformed into audible signals. After a few preliminary tests, the instrument can be reliably used. Changing the gain, the sensitivity is adjusted to satisfy the specific conditions The SONAPHONE RD is equipped with a second amplification circuit such that the digital display is independent of the amplification controller. A built-in memory for maximum values assists in identifying the location of faults or leaks





probe is used for limited access locations, e.g. of leaks at compressed-air systems.

Ultrasonic transmitter SONAPHONE T

This device emits ultrasonic signals. With the transmitter it is possible to test the seals in cars, vessels, doors or windows or for example, under conditions with no pressure difference. The signals are frequency-modulated to achieve a differentiation from the noise of the environment.

The intensity is variable

Air sound probe

sound prob

Battery charger

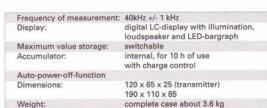
Directional tube and tip

Headphones highly sensitive sound-insulated headphone

Leather bag The bag simplifies the measurements by leaving one of your hands free. Waterproof body sound probe

This encapsulated sensor allows the detection of signals from liquids and is thought for tests below the liquid surface. In contact with the investigated object it serves as a body probe sensor

Body sound probe for the registration of body sounds of pipes or fittings, high reproducibility





Used to connect air sound, water-proof or body sound probe

LC-display

Displays a signal independent of the position of the amplification controller. The values for sound intensity follow a dB-scale. An integrated light sensor initiates the illumination of the display in the dark

LED-displayThe displayed intensity at the LEDbars agrees with the volume of the headphones and both are regulated via the amplification controller.

Plug in of recharger

Charge control of the battery

Amplification controller

Individual adjustment of the re-ceived signals in the headphones.

Pressing this button one stores the selected maximum intensity value.

on/off - button

with automatic power-off-function

Plug in of headphones

