

LEAK DETECTION

FOR COMPRESSED- AIR PLANTS

Attention!
Loss of compressed air = Loss of money



SONAPHONE R
Ultrasonic detector

SONOTEC

*User friendly
Quick response time
Reliable
Low cost*

SONAPHONE R

Ultrasonic detector

**LEAK DETECTION
IN COMPRESSED-AIR SYSTEMS
= minimum losses!**

The situation

The consequences

The solution

- Compressed-air is a conservation-conscious form of energy but leakages within the system are usually fast developing and increase long term energy costs.
- Leakages at compressors, in the compressed-air piping and at the end user can cause defects.
- Badly maintained compressed-air systems waste energy. Leakages cause incremental increases in operating costs. The following losses can arise.

leak diameter mm	air loss with 6 bar in l/s	energy loss	
		kW	EUR/a ¹⁾
1	1,3	0,3	324,-
3	11,1	3,1	3.125,-
5	31,0	8,3	8.367,-
10	124,0	33,0	33.264,-

¹⁾ 1kW x 0,14 EUR x 7.200 operating hours per year

- Reduce your energy costs by systematic leak detection!
- Use our ultrasonic leak detectors SONAPHONE R. It detects leaks in your compressed-air system!



Fields of application

- Leak detection in compressed-air systems, gas and vacuum facilities
- Seal integrity tests for fittings, valves, gates and especially of condenser drains
- Detection of early wear in bearings

Principles of operation

- When leakages occur 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 R they are transformed into audible or electrical signals.



Air sound probe / Flexible probe / Telescope with air sound probe (range 3 m)



complete leak detection kit including bearing diagnostics, seal and fitting tests

applications in industrial plants

