

# ACOUSTIC LEAK DETECTION AT HIDDEN SPOTS

## THE MULTITALENT

HEATING  
SANITARY  
AIR-CONDITIONING  
VENTILATION



**SONAPHONE UH**

*fast  
safe  
inexpensive*

# SONAPHONE UH

## Leak Detection with Acoustic Sound and Ultrasound

The SONAPHONE UH detects smallest leaks and leakages in pressurized systems of heating, sanitary, air-conditioning and ventilation plants.

The device is especially suited for the leak detection at hidden pipes.

If leakages in a floor heating system or in water pipes behind tiled floors have to be detected very quickly, the respective system must be drained and filled with compressed air or nitrogen.

Already at an overpressure of 2 - 3 bar, the floors or the tiled floors can be scanned in sections by using the ultrasonic microphone.

The leaking medium generates noises and signalizes the position of the leakage.

Since the defective part only has to be opened fractionally, the costs of the leakage removal can be decreased enormously.

With the SONAPHONE UH the leakage details can be evaluated in an acoustic field as well as in a high-frequency range of ultrasound. This is an important advantage when searching for smaller leakages, because here ultrasound has a better directive efficiency than acoustic noises.

The sound absorbing head phones make it possible to operate in areas with environmental noises.

By connecting additional structure-borne probes it is possible to test the functioning of fittings and steam traps.

The use of air-borne sound probes allows a quick and easy detection of compressed air leakages.

### TECHNICAL DATA

Connection to	Ground-borne sound probe Ultrasonic microphone Structure-borne sound probe
Optical display of ultrasonic intensity	LED-barograph, 10 steps
Digital display of environmental noises	LCD-display with 0 - 120 scale graduation (like dB)
Acoustic playback	Sound absorbing head phones, strong absorbability of environmental noises
Voltage supply with automatic power-off-function	4 x batteries AA
Operation	ca. 10 hours
Dimensions	195x100x40 mm
Weight	550 g
Operating temperature	0 °C to + 40°C
Storage temperature	-10 °C to + 50°C
MODE change-over	Acoustic sound and ultrasound



SONAPHONE UH with head phones and ground microphone in the basic set.  
Possible change-over between acoustic sound and ultrasound