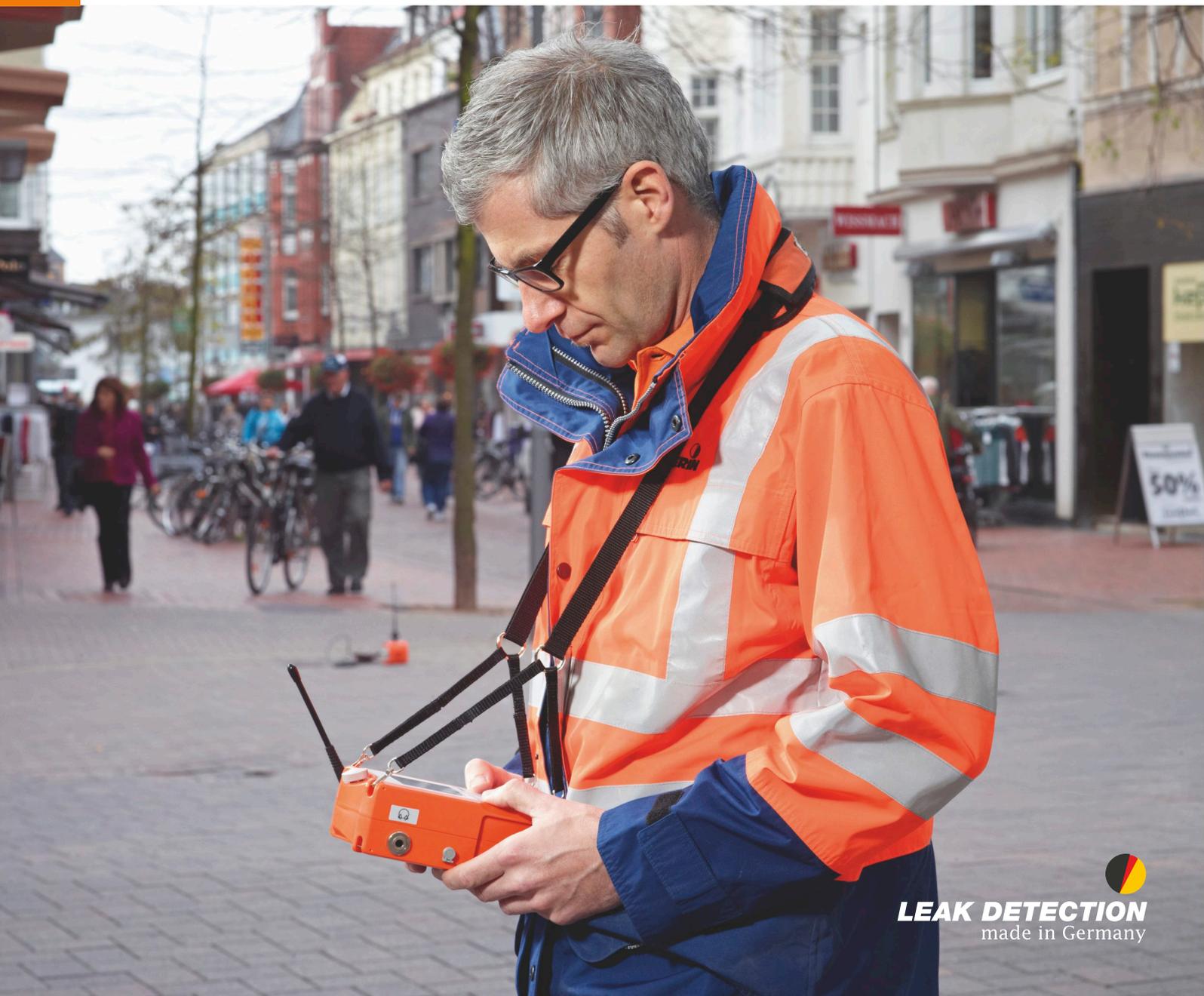


## SeCorr<sup>®</sup> 08

Correlator for the computer-assisted  
detection of leaks



# SeCorr® 08

The handy and lightweight correlator for effortless work and listening to signals on the receiver – suitable for use in all weather.

## What is correlation?

Correlation is computer-assisted leak detection in underground pressure line systems. Leak sites emit a noise which is carried along the pipe material. This noise reaches two fittings (valves, hydrants, home shut-off valves etc.) at different times. The time lag depends on the distance of the leak from the two contact points.

Highly sensitive microphones record the incoming noises on the fittings and radio transmitters transmit these noises to the receiver where the run time difference of the signals is determined.

The exact position of the leak is then calculated from the information about the material, the diameter and the length of the measuring section.

## Why correlation?

Unlike electro-acoustic leak detection in water pipes, correlators work independently of the volume of the leak noises. This means that the intensity of the ambient noise barely affects the measuring procedure.

Successful correlation is therefore even possible during the day on busy roads when electro-acoustic measurement is not an option.

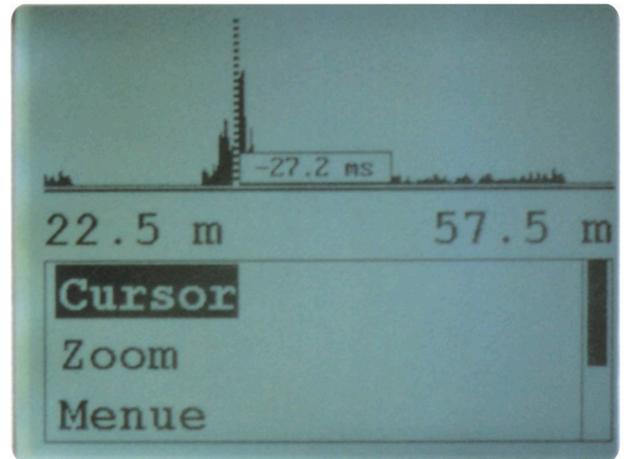
Even factors such as laying depth, surface, type of ground or ambient interference, for example wind or rain, do not affect the accuracy of the measuring result.

Nor do the hearing and experience of the user determine the success of the leak detection operation. The technical possibilities of the user-friendly correlator alone determine the quality of the measuring result.



## Features

- Lightweight, ergonomic handling
- Easy to use thanks to rotary pulse encoder and film keypad
- Can be switched to single-channel radio if a transmitter fails
- Coherence analysis with frequency recommendation for optimal filter setting – ensures clear illustration of the leak position
- Radio reception over more than 2.000 m per channel
- Measuring assistant for everyday situations
- High-resolution graphic display
- PC communication software for printing out and recording measurements
- High-performance transmission path (500 mW) with optimal selectivity



High-resolution graphic display showing a correlation

## Signal processing and transmission

- Quick and easy to use
- Select measuring point and position of transmitter
- Switch on **RT 06** transmitter by connecting microphone
- High-performance transmission paths with 500 mW transmitting power
- Simple radio operation even if line-of-sight is obstructed
- Frequency filter for effective adjustment for measurements on plastic piping



## Signal recording

The highly sensitive **EM 30** piezo microphone reliably records noises in a frequency range of roughly 1 to 10,000 Hz. Various adapters enable optimal connection to the measuring points.

The hydrophone does not record the sound from the pipe material, but instead directly from the water column. This considerably improves the leak coverage, especially when correlating plastic piping. It also makes it possible to successfully detect leaks over hundreds of meters.



## System case

This sturdy hard-top case offers space for all the system's components. The receiver and the two transmitters can be charged at the same time inside the closed case.



## Connection and signal transmission

The **EM 30** piezo microphone is connected magnetically to the valve of an underground hydrant. Radio transmitter **RT 06** transmits the noise recordings to the **SeCorr® 08** receiver.



Please contact us for a comprehensive quotation, including additional technical specifications and information on accessories.