

SeCorr[®] 300

Professional PC correlation
Perfect results thanks to fully digital technology



SeCorr® 300

The principle

SEWERIN has a long tradition of producing systems for locating damages in pipe networks by way of correlation. The **SeCorr® 300** is a system of unprecedented quality to complement the existing product range.

The fully digital signal processing and transmission by and large eliminates the interference which so often causes problems in conventional correlators.

The digital radio eradicates the notorious hissing in transmission paths. Even the narrow bandwidth of analogue modules no longer poses a restriction.

The noises recorded from the leak are already digitised in the microphone thus eliminating feedback via the cables. This produces significant advantages, particularly in plastic pipes, where the noise emitted from the leak is, as a rule, very poorly transmitted and thus very quiet.

The result is improved leak coverage in non-metallic pipes, which is increasingly used nowadays in water pipe networks.

Notebooks and desktop PCs can be used to analyse the measurements, as can Tablet PCs or field notebooks, for example, which have been specially designed for use in adverse conditions.

Thanks to the USB standard, the system can be easily connected to the computers.

Provided the computer is state-of-the-art, the **SeCorr® 300** system offers the user every possibility to produce optimal results, even under difficult conditions where conventional correlators would reach their limits.



The transmitter unit

Radio transmitter **RT 300** is mounted on a tripod for correlating and can thus achieve a transmission range of up to 1000 metres. If the radio transmitter's range is not enough for successful correlation, the noise is stored in the transmitter memory for 40 minutes. It is then transmitted to the receiver later, as soon as the radio connection is re-established.

Thanks to a microphone holder on the tripod, the transmitter unit can easily be carried in one piece to the site.

The user can listen to the current noise through headphones, allowing him not only to assess the volume of the noise, but also filter it. Using the filter it is easy to estimate in which frequency range the noise is loudest.

The devices are marked with a luminous strip making them easy to distinguish and highly visible. LEDs right around the housing ensure safety when performing correlation measurements at night.

The rechargeable batteries provided have such a large capacity that systematic correlation well over a normal working day is no problem.

Once the measurement process is complete, the whole transmitter unit can be transported in the vehicle. Alternatively, the transmitter unit can be dismantled, the tripod folded down and all parts put back in the case.

SeCorr® 300

The radio receiver

The **RX 300** receiver receives signals from the transmitter and relays them to the PC via a USB cable. The cable can be connected to any computer with a USB port.

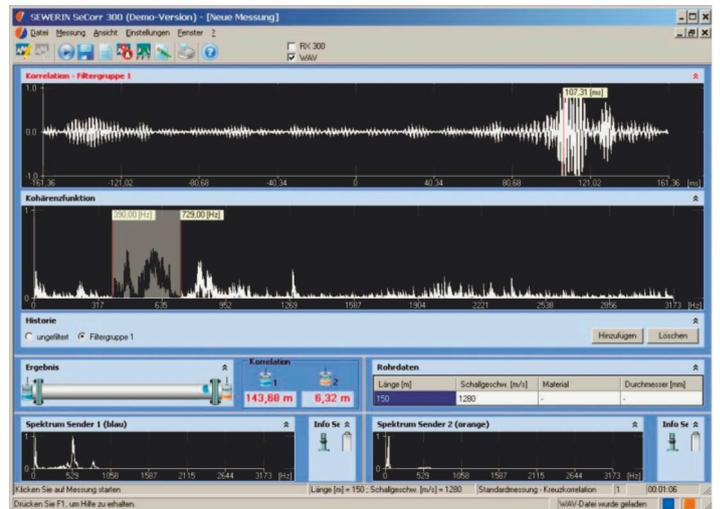
The **RX 300** features a rubberised magnet for use with a measuring vehicle. This holds the receiver on the roof of the vehicle without damaging the paintwork – no need therefore for the time-consuming installation of a roof antenna.

An LED control continually indicates the status of the **RX 300**.

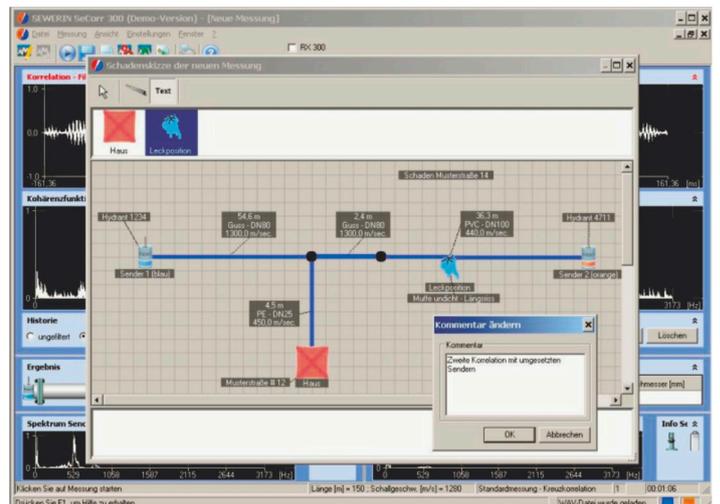


The software – Overview of basic functions

- Database-based software, no more cumbersome searching through folders for file names, all measurements at a glance
- Can also be run on 64-bit operating systems thanks to .net, future-proof
- Mode of curve of correlatable, synchronous data on a time axis with free selection of correlation section; loud areas and areas with interference can thus be reliably identified and hidden (e.g. times with noises of consumption)
- Original noises can be recorded; there is the option of creating a noise archive for comparison purposes
- Filters of up to 10 bands in up to 5 filter groups; the results of various, arbitrary filter settings can be compared
- Input up to 5 different pipe sections and up to 3 freely definable extra materials; optimal flexibility as opposed to fixed standards for correlation professionals
- Easy drawing of damage sketches to supplement measurement reports; optimal documentation for service companies



Correlation result after filtering



Sample fault sketch



Notebook case

- System case
- Notebook
- Notebook's accessories
- Compartment to optionally accommodate **RX 300**



Transport case

- System case
- Tripod
- Chargers
- Microphone **EM 300**
- Radio transmitter **RT 300**
- Receiver **RX 300**



Hydrophone case

- System case
- 2 hydrophones **HY 300**
- 2 connection cables
- 2 adapters for connecting the hydrophones to DIN underground fire hydrants
- Turning tool

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