

SeCorr[®] 300

The new correlator SeCorr[®] 300 – digital and rapid

- Completely digital signal processing inclusively of radio transmission
- Bi-directional radio connection to control the radio transmitter
- Also available with weatherproof outdoor notebook
- Database software, protected operator accounts

The SeCorr[®] 300 components are easy to operate, application related and safe in handling.

Radio transmitter SeCorr[®] RT 300, radio receiver SeCorr[®] RX 300 and microphones



Radio transmitter RT 300



Radio receiver RX 300

Sewerin applies new technologies to reduce interferences in water leak detection as far as possible. Leak noises are already digitalised inside the microphone and then digitally transmitted via the radio transmitter RT 300 to the radio receiver RX 300. The high frequency provides the required transmission capacity on the radio link. This also ensures that a maximum on information is taken out of the leak noise.

Measuring values can be digitally stored inside the radio transmitters enabling a later offline read-out. Thus no direct radio connection is required. At the same time the requirement for controlling an unlimited length of measuring sections is given.

The bi-directional radio connection between the radio transmitter and the receiver enables the operator to control the radio transmitters directly from the receiver resp. PC. As soon as the radio transmitters are placed, subsequent adjustments can easily be effected.

In multiple-point correlation more than two microphones and radio transmitters are operated at the same time. The important factor for the accuracy of the calculated leak position „sound velocity“ is thereby internally calculated.

The new (part of the system) microphones are designed to pick-up noises of very deep frequencies. This improves measurement at plastic pipes. For especially difficult situations, the new hydrophones can be applied instead of the microphones. These hydrophones are directly put into the water column and can even be used – besides their regular application at plastic pipes – for very long pipes or pipes with large diameters.

LEDs are integrated into the housing of the radio transmitter. This increases safety in road traffic by rotating flashes.

Radio transmitter RT 300

Protection class: IP 65
Power supply: selectable batteries or accumulators (chargeable directly inside RT 300)
Operating time: min. 8 hours
Operating temperature: 14 °F up to 104 °F
Storage temperature: -4 °F up to 158 °F



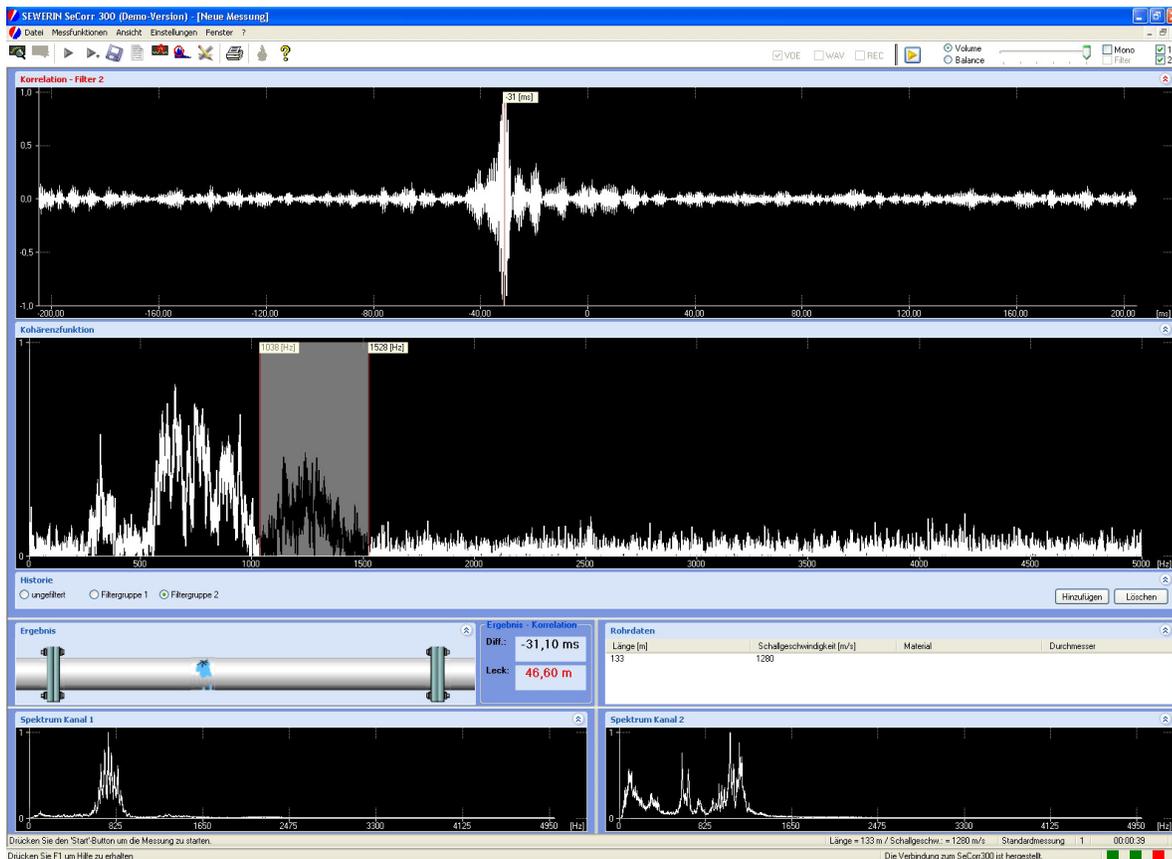
Radio receiver RX 300

Protection class: IP 65
Power supply: external via PC (USB port)
Operating temperature: 14 °F up to 104 °F
Storage temperature: -4 °F up to 158 °F

Microphones

Protection class: immersible down to 3.28 ft. (IP 67)

Software SeCorr[®] 300



The new software with up-to-date operator menu can be operated intuitively. All measurements can be filed in a database. They can be specifically called via the filtering and search function (e.g. Date, Place, Operator).

The operator can even search for measurements with similar damage symptoms.

The software **SeCorr[®] 300** is available in two variants; „standard“ and „professional“. Operators of the “professional” mode can also choose the “standard” mode, to get to know the system faster.

In case several operators work with the same software, various protected operator accounts can be set-up. So each operator can store his own individual program settings.

Digital network plans on the PC can be used to create a fault sketch. An editing function is the basis for a „digital fault sketch“.

A novelty of the system is the „soft filter“. It permits the operator to hear noises exactly the way, how they are used when correlation is calculated. At the same time interferences can be filtered out according to acoustic valuation – an additional option for data evaluation.

Computer

When choosing the PC hardware high flexibility to fit into various environments is offered, e.g.:

- Weatherproof outdoor notebook (e.g. microport colibri); equipped with a transfective display
- Commercial notebook; safely accommodated into a transport case
- Desktop PC; stationary mounted into a vehicle

System requirements: Windows 2000/XP, 1 x USB port, sound card with headphone output

Recommended: 512 MB RAM, processor 1,1 GHz, screen resolution 1024 x 768 pixel

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We are certified in accordance with EN ISO 9001

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