SEWERIN

SePem® O2

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Noise logger

to pre-locate water leaks systematically

The principle of noise logging

The application of electro-acoustic methods for water leak detection highly depends on the intensity of environmental noises, thus, it is often necessary to carry out network-survey during night-time.

Noise logging is a low-cost and effective alternative to night-work. The loggers measure the intensity of the noises during a pre-defined period of time. During that period, they look for the lowest noise level when no or the least possible disturbing noises can be heard. Very low levels (measuring value nearly 0) indicate no leak near SePem®. In case of leaks, noise is permanently present and in an ideal case the only noise to be measured.

Basically the SePem® offers two different ways of handling.
1. The individual loggers can be placed into the next

measuring spots after one or two nights of measuring. For this purpose the SePem® software offers extensive functions for planning the measuring cycles and processing the data which are read out at the of a measuring period.

Each SePem® offers, due to the modular extension of a GSM-module, the possibility of a stationary application. Therefore the network can be monitored permanently at critical spots. This monitoring would otherwise require great efforts.

Components

SePem® K with noise sensor. Modular system fitted with changeable sensors, e. g. SePem® G (noise sensor) allows different applications of the same logger.

Also useable as pressure logger in combination with other sensors.

Flexible power supply. Possibility to use Alkaline batteries or accumulators. When using accumulators with the SePem®, charging can be done inside the instrument.

SePem®, prepared to be mounted in an under-ground fire-hydrant.

No water contact required.

Further adapters for the coupling to valves, above-ground fire-hydrant or other fittings are available as accessories.


Charging adapter 6-fold for accommodation or charging as well as transport 6 SePem® units – designed to be piled up

The software

Data base features

The communication and evaluation software offers extensive functions. Not only the control and check-up of the single measurements, but also a comfortable administration of measuring points as well as the generation of lists to classify the logger to the corresponding measuring points.
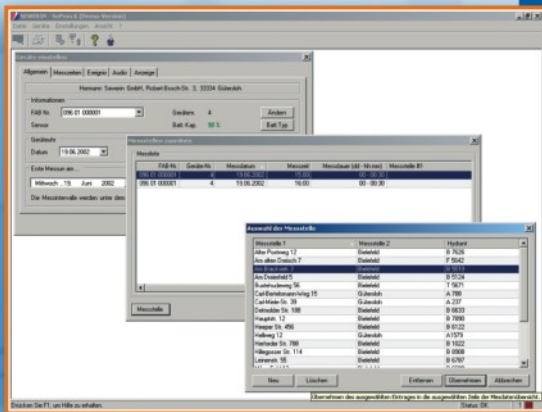
Read-out of results

➤ Automatic recognition of the connected logger

➤ Tabular presentation of the recorded data

➤ The tabular presentation can be edited according to the operator´s requirements

➤ Permanent monitoring of communication parameters ensures an optimum safety during read-out

➤ Editing of values in internal data bases

➤ Filter function for data base interrogation
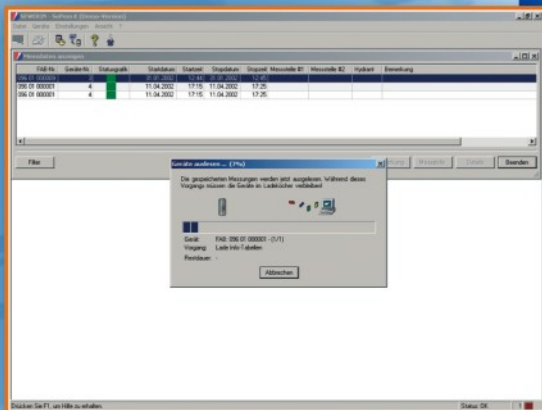
Evaluation

➤ Stored noise samples of the minimum levels can be heard with the sound card

➤ Diverse graphics for level analysis:
  ➤ Histogram
  ➤ Frequency spectrum (FFT)
  ➤ Level, chronological course
  ➤ Level, intensity course
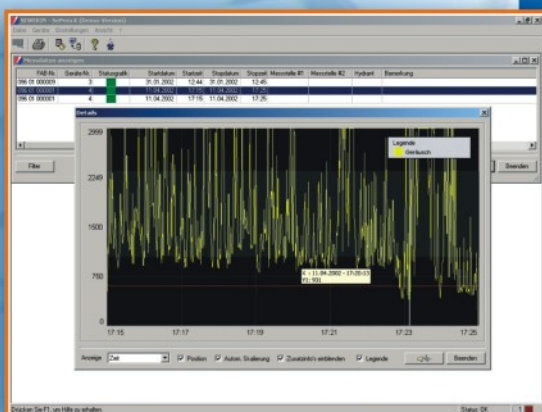
Diagnosis

➤ Each **SePem**® can be tested without additional software.

➤ The diagnosis includes besides instrument-internal information also status statements on LED´s and accumulators.
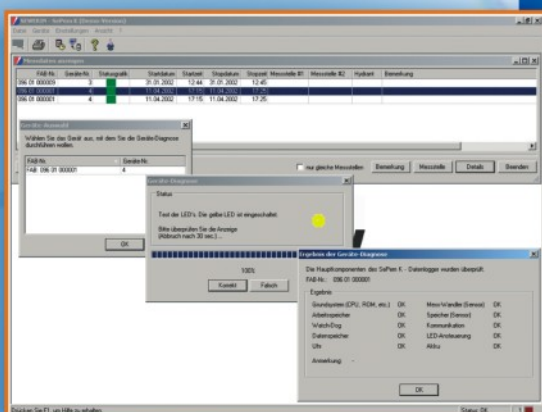
Technical data

SePem®

➤ Non-corrosive high-grade steel housing

➤ Water-proof construction, submersible to 1 m water depth (IP 68)

➤ 1 MByte internal data storage

➤ Sampling rate: 1 ms ... 1 min. adjustable (dependent on sensors)

➤ Power supply:
   4 changeable Mignon · LR6 · AA · AM3 cells

➤ Operating time:
  ➤ accumulators: typ. 100 hours
  ➤ batteries: typ. 375 hours

➤ Charging technique for: 100 ... 240 V ≈ or 12 V=

➤ Communication: SEWERIN bus system

➤ Weight: approx. 980 g

➤ Dimensions (H x Ø):   100 mm x 55 mm

➤ Operating temperature: -20° ... 50° C (dependent on internal power shupply)

➤ Storage temperature: -20° ... 70° C (without batteries)

Accessories

➤ Magnetic adapter

➤ Adapter for valve mounting

➤ Adapter to be coupled to Storz-B or C coupling

➤ Eye-bolts for shaft mounting

Extensions

➤ Pressure sensors
  ➤ Available from summer 2003
  ➤ Different pressure ranges in preparation

➤ Wireless communication
  ➤ GSM module for data transfer
  ➤ Available from spring 2003

System requirements for Software

Processor:	at least P II, 350 MHz; recommended P III, 600 MHz
RAM:	128 MB
Available hard-disk memory:	80 MB

Sound card

Operating system: Windows NT 4.0; 2000; XP; further operating systems on request

Software: MS Internet Explorer 5.01

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Certified according to

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