

Leakmaster



FAST

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Acoustic Zone Monitoring

- speedy leakage locating process from a mobile unit
- reduction in personnel costs - only one operator required
- high operating efficiency - battery lifetime of about 10 years

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Technical Specifications

Transmitter

Data Transfer

periodically
 between 6 am and 7 pm 12 times per minute
 between 7pm and 6 am 1 time per minute
 arbitrary period

- minimum level of the past two weeks
- measurement quality (rain, wind, etc.)
- current MIN/MAX level
- logger number
- location of acoustic logger

Operating Time

8-10 years with the same batteries
 5-year warranty

Measuring Time

optional: the whole day
 2 am - 4 am

Transmitting Power

power 10 mw
 frequency 433 Hz

Programme

updateable, programmable parameters

Protection Class

IP 68

Sensor

piezoceramic

Temperature Range

-15°C up to +55°C

Dimensions

40/44 mm / height 112 mm / integrated antenna

Weight

about 0.45kg

Material
 V2A and plastics



ISO 9001:2000

Specifications are subject to change.

Receiver

Material
 aluminium

Display
 topography
 measurement quality
 noise level
 history level
 leakage status
 current MIN/MAX level

Power Supply
 internal accumulator
 external 12 volts DC

Interfaces
 printer/PC
 GPS optional
 external LCD

Leakmaster

Acoustic Zone Monitoring with Wireless Read-out

General Information

The Leakmaster wireless monitoring system sets a new benchmark for the network servicing business. The noise levels saved by the data loggers are radio-transmitted to the driving mobile unit, where even an untrained operator is able to detect any leakages due to the precise data received.

Description of Functionality

At any leakage spot, the outpouring water generates a particular noise which travels on the water pipe. This noise can be picked up at valves, hydrants, water meters, and other fittings. The shorter the distance between the noise source and the noise pick-up spot is, the clearer and more intensive is the received signal. The mobile F.A.S.T. radio data logger considerably reduces the time required to locate a leakage spot. If the entire network section has been equipped with transmitters, one operator can check between 220km and 350km of supply pipes per day.

The loggers measure and analyse the leakage-borne noises during the low-consumption period at night-time (between 2am and 4am). This data will be saved and radio-transmitted every 5 seconds. The battery of the logger has been designed for a 10-year lifetime.

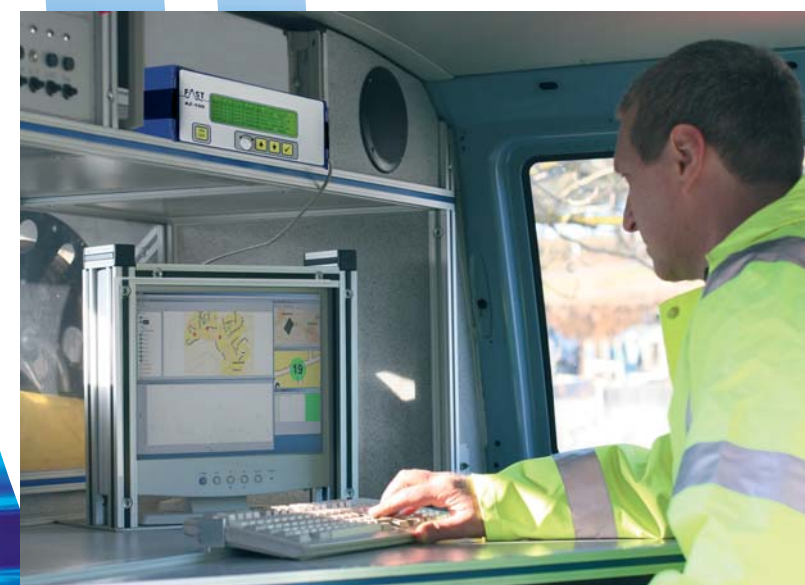
The mobile unit (maintenance van, etc.) passing by acquires the data, and the measurement results are displayed optically and acoustically also indicating the exact location of the leakage spot. Good measurement quality provided, the pipe section is suspected of having a leakage if the minimum night noise level has risen during the night.

The device determines the minimum noise level of the night before on the basis of 24,000 acquired measurement values. Comparing this calculated value with the calculated values of the previous 14 nights by taking the measurement quality into account is the basis for issuing the leakage-related information:

- leakage
- no leakage
- possible leakage



Die Messungen können in den verbrauchsarmen Nachtstunden zwischen 2.00 und 4.00 Uhr durchgeführt werden.



The loggers can be supplied in two different sizes to fit the particular locations.

Leakmaster will help you efficiently to reduce water losses and significantly to cut on personnel costs.