

TECHNOLOGY WITH A FUTURE



**ORTOMAT-MT**

- Frequency and broadband analysis (spread)
- correlation between ORTOMAT-MT Measuring possible
- Easy Installation
- Data over GSM Network

# ORTOMAT-MT

## Functional and use of the Ortomat-MT:

The Ortomat-MT- leak monitoring system employs the most modern technologies and a range of measurement methods to recognise and locate water leakage in its early stages.

As found in the conventional ORTOMAT-System, the user has a highly effective, uncomplicated and precise leak information system. In water pipeline systems that are under pressure and where leaks may be suspected, the system can be permanently monitored or temporarily checked with this simple installation.

## Principle of monitoring system:

During the period when the lowest water consumption is expected (between 02:00 hrs and 04:00 hrs), the Ortomat-MT records the sound structures in the water system using a highly sensitive vibration sensor.

In the process, besides the volume level measurement and the frequency also the wavelength is analysed. By employing these three measurement results it is possible to locate a leak with accuracy.

A fourth analysis can be completed using adjacent Ortomat-MT monitoring points to effectively produce a basis for correlation. The leakage sounds that have been recorded during the monitoring period are sent via Bluetooth to the controller or notebook for correlation. This correlation is used to simplify the location process.

As an additional function a Hydro-ALERT mode can be activated. Water use from a fire hydrant will be detected and reported within some seconds.

## Data evaluation:

For the user, there are various data evaluation possibilities available.

The basic version of the Ortomat-MT performs data communication via Bluetooth or 868 MHz radio technology. The recorded measurement data can then be transmitted to the Controller or PC for further analysis and

reports. The controller serves also to produce graphic representations of the measurement data on site and to store data for transfer to the programming and analysis software. The Ortomat modules are capable of correlation with one another and can transfer the audio data for acoustic assessment of the measurement points directly on the controller.



In an enhanced version, the Ortomat-MT offers a professional solution for the automated data transmission and/or the direct alarm signal to a control centre that is equipped with GSM technology or radio network technology.

## Installation in the network:

The installation of the Ortomat-MT equipment can be anywhere where the magnetic adapter will come in direct contact with the water pipe. A particularly uncomplicated installation may be made with the hydrants from the company vonRoll. The model 5401, Classic, HYtech and Hy+ are manufactured with a built in Ortomat holder.

In cases where no hydrants are available, the installation may be by means of a slide rod, an underground

hydrant or directly on the water pipe. With a weight of only 200 grams and dimensions of Ø 40mm x 100mm, the installation possibilities are almost unlimited. The robust IP68- housing protects the electronics of the Ortomat from extreme weather conditions.

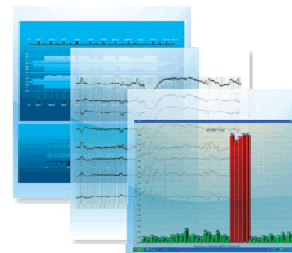
## Programming:

The equipment is factory programmed according to the individual requirements of the water supply. There is no need for further adjustments or calibration.

## Programming and analysis software:

- The programming and analysis software allows complete adaptation to the required parameters.
- The data received from the controller or directly from the GSM network can be stored, analysed and reported.
- The complete recorded data is written in the same file.
- In the case of multiple readings, the data is stored chronologically one after another by the software on the effective date when the reading was obtained.
- The recorded data can then be compared over months or years.

The communication software and the Ortomat MT / Controller is via radio



For questions, please contact us at the following telephone number or e-mail address:

