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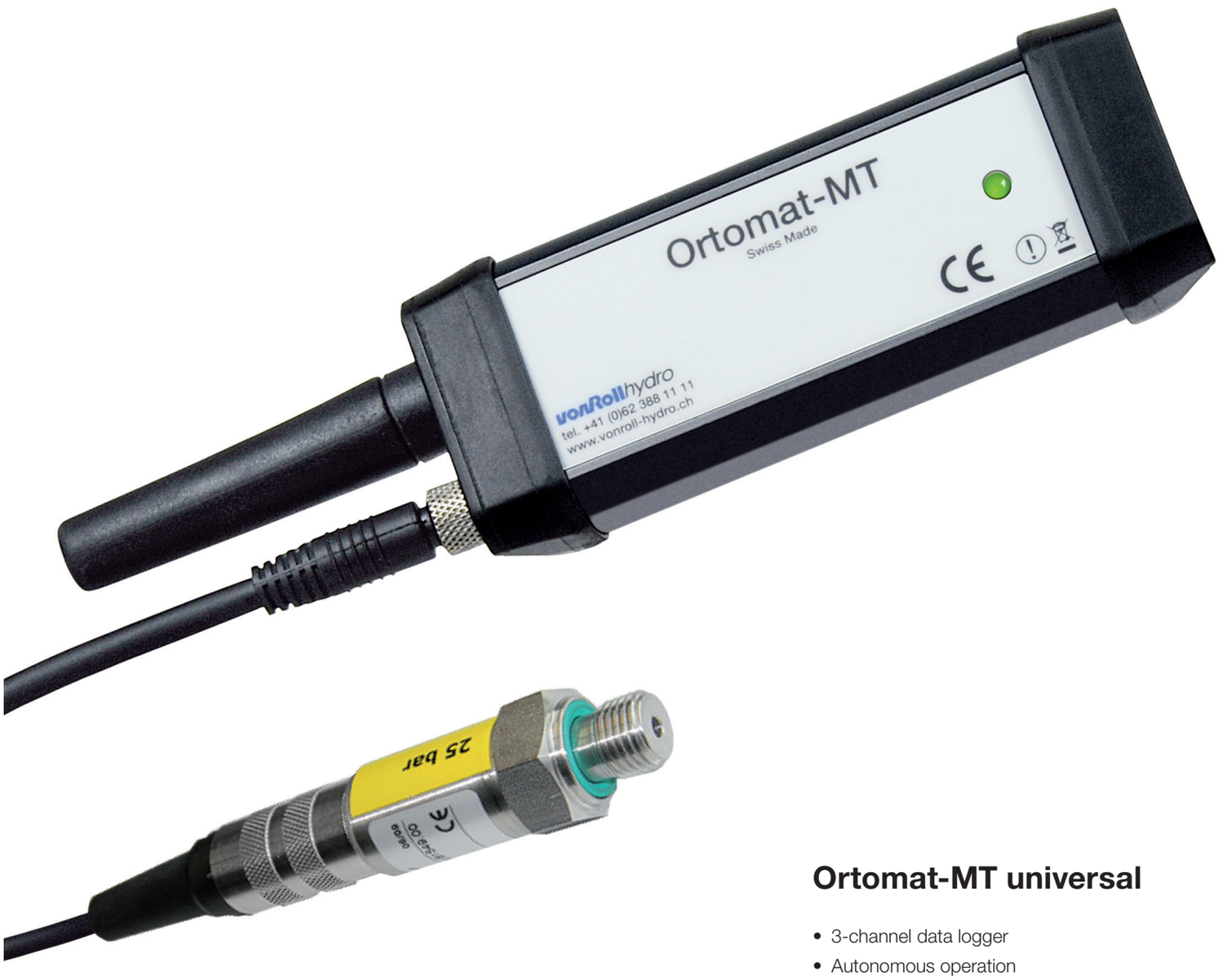
T E C H N O L O G Y W I T H A F U T U R E



Ortomat-MT universal

- 3-channel data logger
- Autonomous operation
- 24h-monitoring
- Data communication via GSM network
- System compatibility to Ortomat-MT noise logger
- Robust and waterproof IP68

Ortomat-MT universal – permanent process-surveillance with autonomous data-transfer

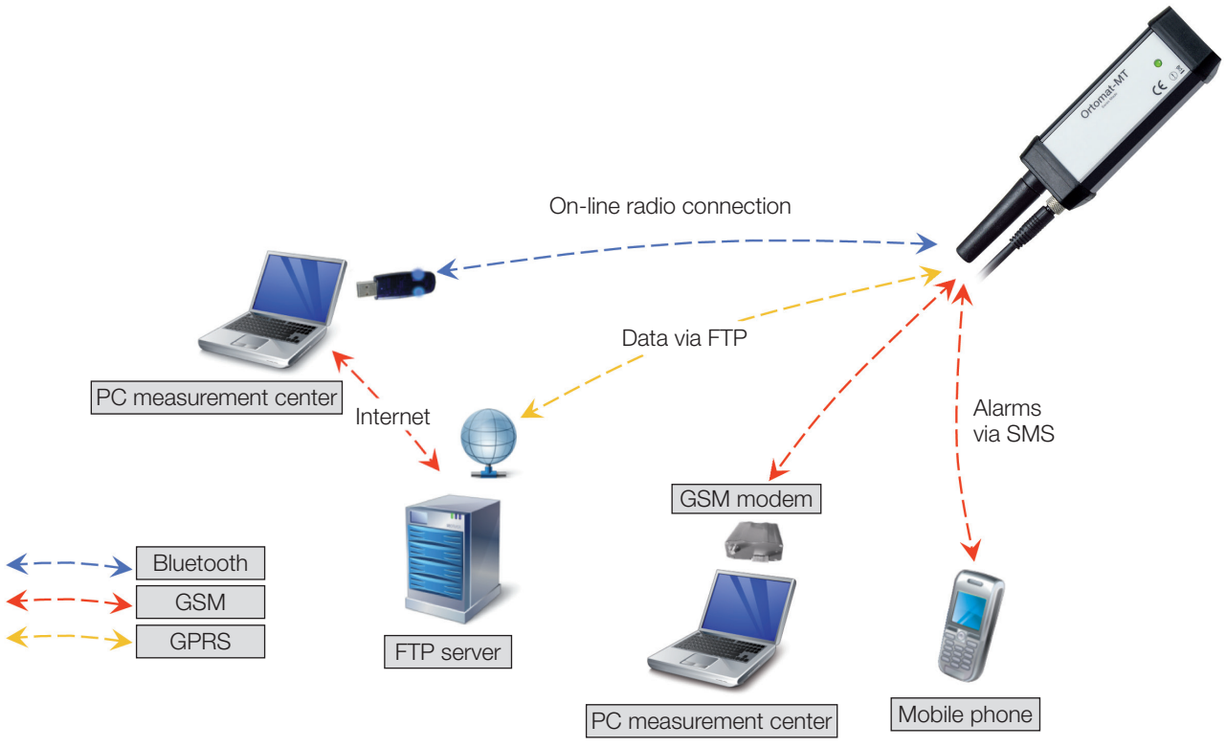
The Ortomat-MT universal complements the Ortomat-MT noise logger and enables autonomous measurements with unlimited applications.

Most of the commercially available sensors can be attached. It uniquely requires an output-signal of 4-20mA or 0-2V.

The basic version is equipped with a 3-channel measure module which consist of two analog inputs (4-20mA or 0-2V) and an impulse input (reed, optical).

Depending on the situation/application are either periodical single-values (free defined measurement intervals) or mean-value measurements possible. (sampling time approx. 100ms)

The measured data are saved, monitored and via GPRS to a FTP-server periodically transferred.

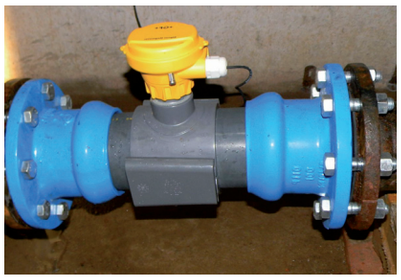


Data transfer

Applications

- Temperature monitoring
- Pressure monitoring
- Flow monitoring for DMA management
- Level monitoring (reservoir, tank etc.)
- Etc.

Signal splitter box with lithium-battery package



The third channel records impulse-signals from various flowmeter sensors which enable following applications:

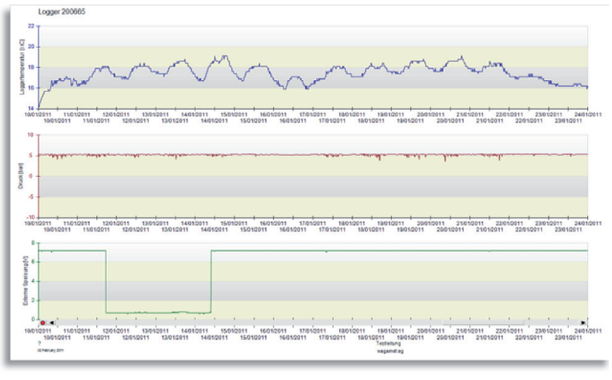
- Flowmeter with REED output signal
- Flowmeter with optical impulse output
- Flowmeter with open-collector impulse output

A signal splitter box with a DIN assembly rail and adaptor and an additional lithium-battery package assures an easy installation of the sensors on-site. It enables an autonomous operation from up to 2 years.

In addition are following applications possible:

- Meteo monitoring (temperature, humidity, air pressure, wind speed and wind direction)
- Rain
- Waterquality for turbidity, conductivity, oxygen content and pH-value

Meteo sensor



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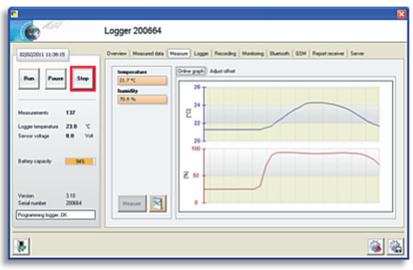
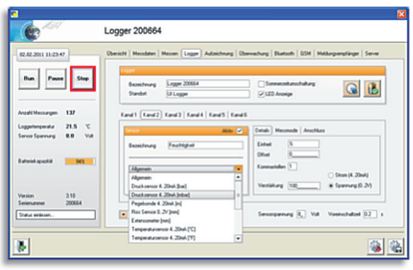
Universal power supply of the sensors

The individual adaptable power supply for the corresponding sensors is an additional asset of the software. The Ortomat-MT universal is capable to provide the requested supply voltage with the needed actuation time for the individual sensors. Several sensor types are already stored in the default settings.



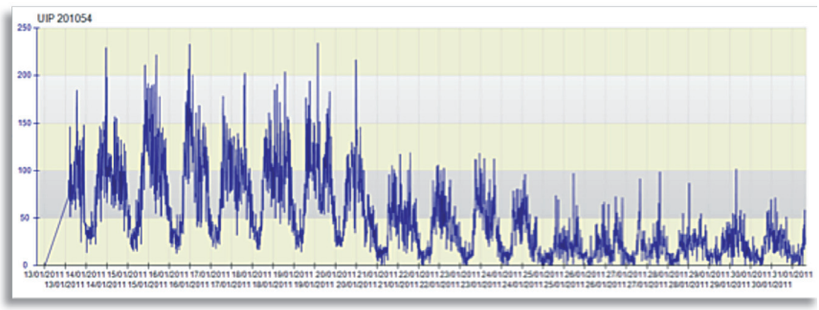
Online-monotoring



Channel-settings

Measuring operation

The recorded measuring values can be online visualized via Bluetooth or GSM connection. It is possible to program two independent measurement intervals, which enables to monitor the data in different time sequences. There is a storage capacity of 70'000 measurement values.



Threshold monitoring

The threshold-values (upper- and lower limits) of all three channels can be programmed and monitored. There are up to four recipients who can receive a text message in case one of the thresholds is out of the accepted limits.

Software

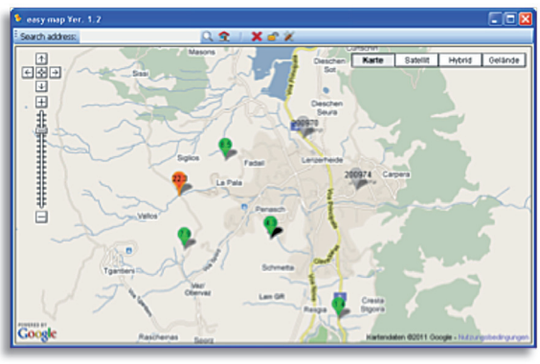
The software is very user friendly and all measurement points (data loggers) are clearly arranged.

Both, the Ortomat-MT universal and the Ortomat-MT noise logger can be embedded in the same project which shows the compatibility of the software.

The Ortomat-GIS is optionally available for the visualisation of the location of the measurement points. Alternatively, we provide Ortomat easy-map, which is based on Google-maps.

The measured values can be exported into an Excel-file for further processing.

Ortomat-MT software



easy-map Mapping tool

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