WCS WATER CONTROL SYSTEMS®

Battery Operated Remote Monitoring

MTA GmbH MESSTECHNIK

AUSTRIA

KÄRNTEN Innovation and Research Award of Carinthia 2011

ÖVGW MITGLIED DER ÖVGW ÖSTERREICHISCHE VEREINIGUNG FÜR DAS GAS- UND WASSERFACH

EPC EUROPEAN PIPELINE CENTER®

WCS
WATER CONTROL SYSTEMS®

MOBILE MONITORING

WCS – Water Control Systems is a modular remote monitoring system recording dynamical values and static state inquiries for

- Water supply systems
- Sewage systems
- Wastewater treatment plants
- District heating plants
- Environmental industry

Metering data and graphs are monitored in real time, e.g. in order to carry out water loss analyses in a water supply network (flow meter data, reaction on opening or closing of fittings ...).

BENEFITS

WCS – Water Control Systems is generally designed for battery use. This gives independence to the energy supply network and guarantees a higher system availability (no data loss at power failure). Using a data transmission interval of three hours, the battery operates with a life span of five years.

Optional connection to the power grid is possible. WCS – Water Control Systems allow the collection of metering data in fields where, due to missing power supply lines or data lines, up to now an efficient data control was not possible.

INTEGRATION IN EXISTING APPLICATIONS

WCS – Water Control Systems can be integrated in any existing system, since all measuring probes, transmitters and controllers can be connected whether the data is sent analogously (4-20mA or 0-24V), digitally or via RS 232 interface.

REAL TIME MONITORING

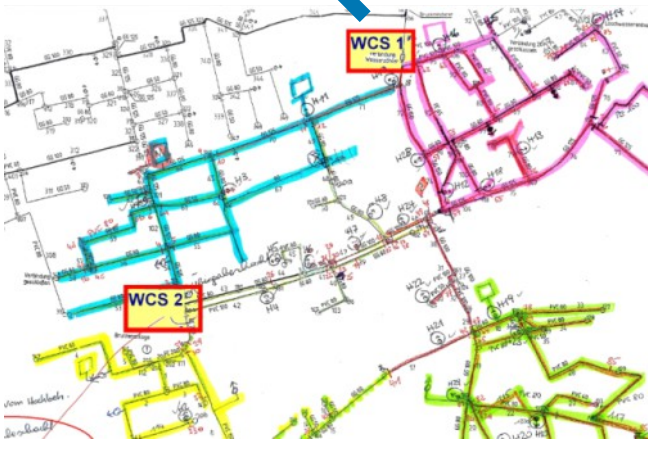
Using the online mode, metering data or graphs can be monitored in real time.

There is no need to install an additional software, the data can be monitored using your preferred internet browser.

LOW-COST DATA TRANSFER

Recorded data are automatically transmitted to a web server and immediately filed via the data service of a mobile communications network.

Using a client specific password the customer can login via internet to the web server and gain access to the metering data. This access can be carried out via PC or other mobile equipment such as laptop or internet capable mobile phone.



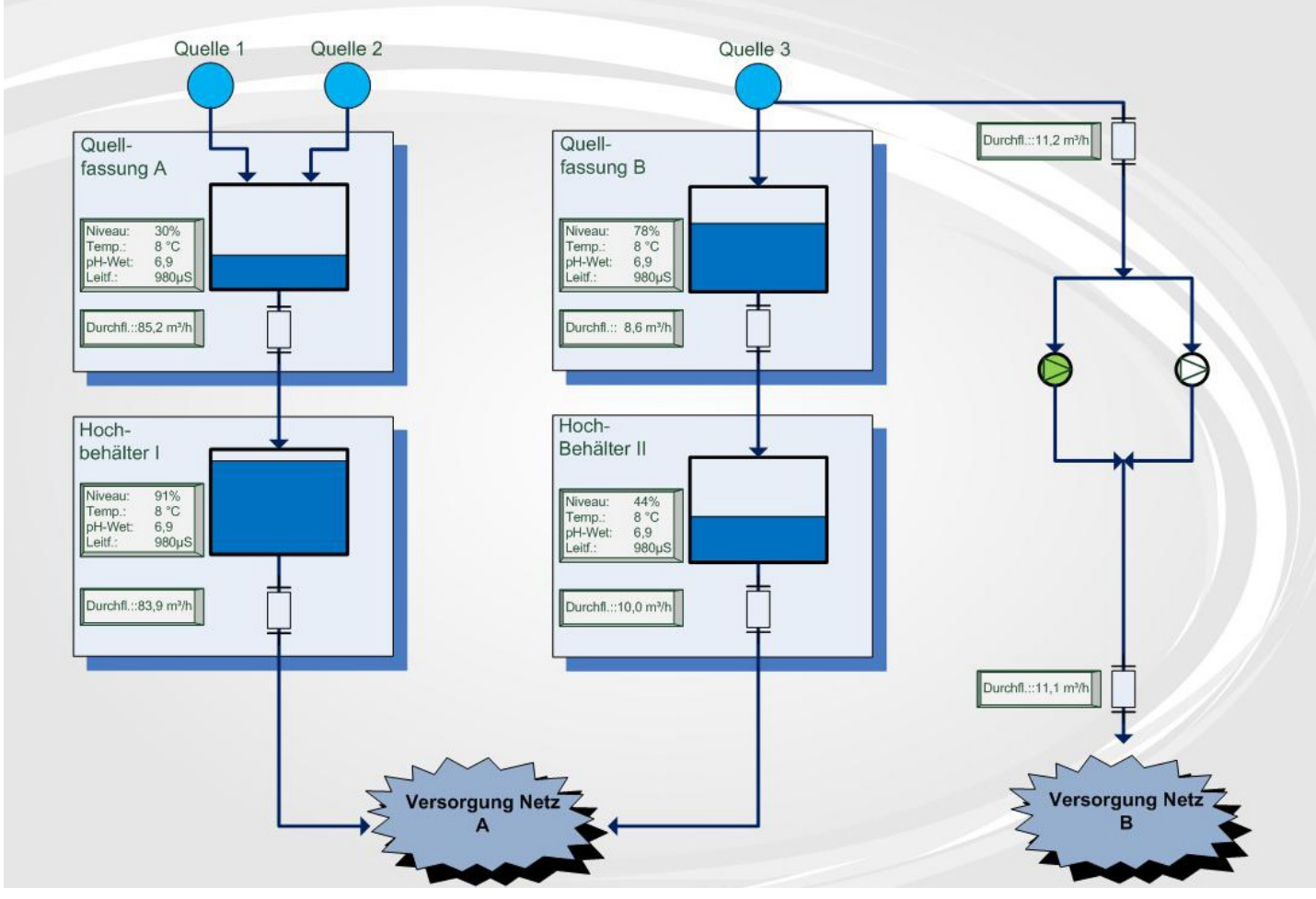
TRACKING DATA

Tracking data in real time is essential for a successful system monitoring.

It is possible to narrow down the origin of water losses to a certain pipeline section by opening or closing of valves. So appropriate countermeasures can be introduced in time in order to avoid further adverse impact.

Another helpful feature is the option of sending alarm messages based on defined limit values whether as an email or SMS message.

WCS - Water Control Systems provide a control center, a graphical interface, representing the scheme of the monitored water system. All data can be viewed comfortably and easily. The program`s interface can be adjusted individually and represents high tanks as well as groundwater measurement or wells.



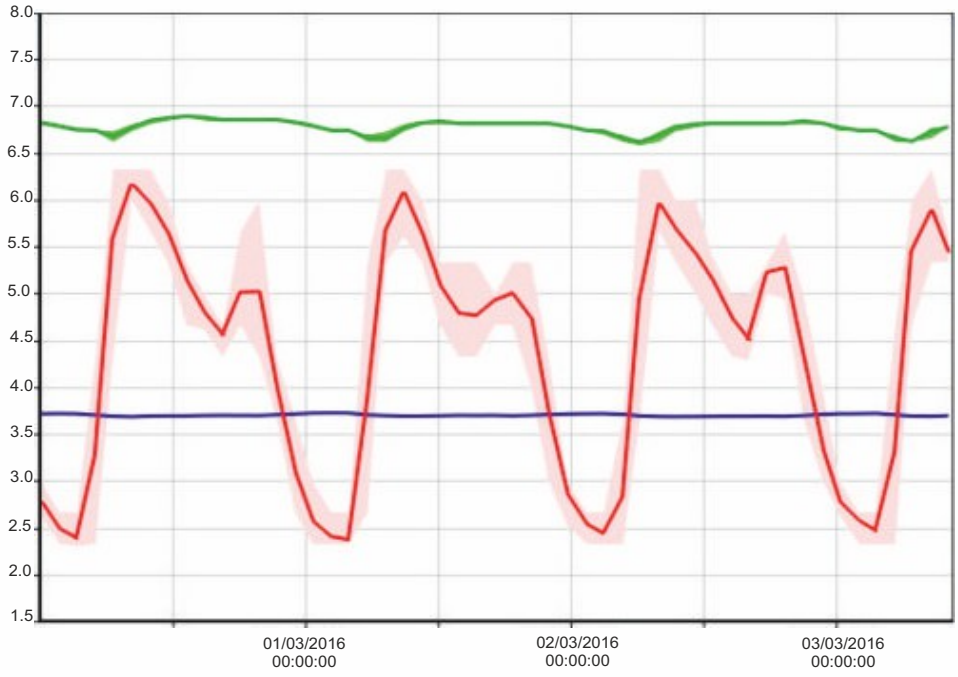
WCS web interface control center

WCS WEB INTERFACE CONTROL CENTER

WCS - Water Control Systems allow the presentation of measuring data in different ways. Choose between graphical or tabular presentation with the option of combining the single data depending on how the task is requiring it.

WCS WEB INTERFACE

Control Center / Service MTA



Selected sensors

- Flow (l/s)
- Water level
- Temperature

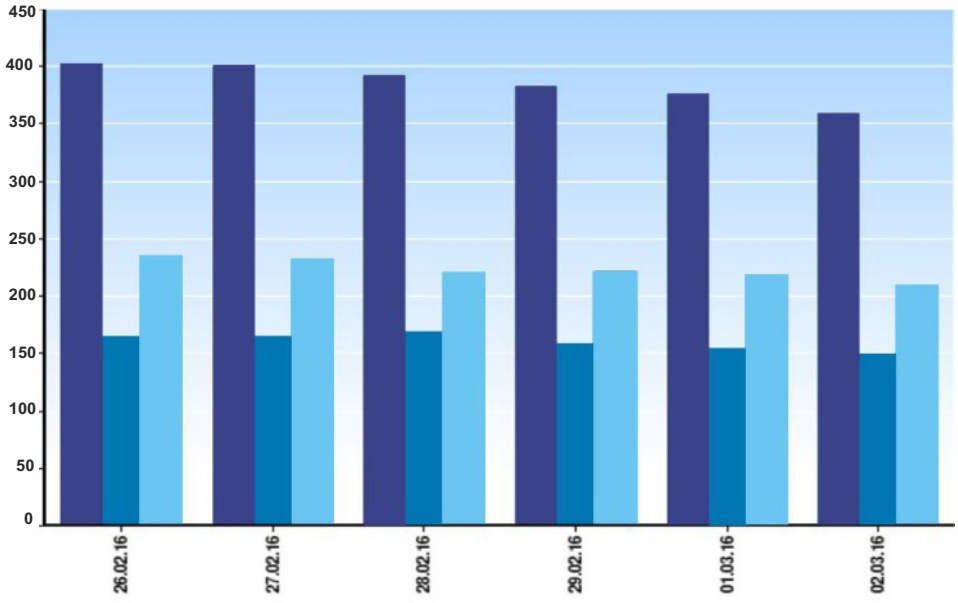
Selected periods

- Current week

More options

- Switch to table view
- Show protocol
- Download CSV-file

Flow (l/s)
Water level (m)
Temperature (°C)



Measured time point	Flow (l/s)
29.02.2016 00:02:56	3
29.02.2016 00:07:56	3
29.02.2016 00:12:56	3
29.02.2016 00:17:56	3
29.02.2016 00:22:56	3
29.02.2016 00:27:56	2.6667
29.02.2016 00:32:56	3
29.02.2016 00:37:56	2.6667
29.02.2016 00:42:56	3
29.02.2016 00:54:02	2.7027
29.02.2016 00:59:02	2.6667
29.02.2016 01:04:05	2.6403
29.02.2016 01:09:05	2.6667
29.02.2016 01:14:05	2.6667
29.02.2016 01:19:05	2.6667
29.02.2016 01:24:05	2.6667
29.02.2016 01:29:05	2.6667
29.02.2016 01:34:05	2.6667

Flow (m³)
Zone 1 (m³)
Zone 2 (m³)

WCS FOR WASTEWATER

WCS - Water Control Systems is also available for wastewater. Measurements are made by using inductive methods, which have a high accuracy (0.5%). Ease of installation and a broad range of applications (DN 80 up to DN 800) help in the detection of water infiltration.

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