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GPRS DATA LOGGER WITH INTERNAL PRESSURE SENSOR FOR MONITORIN OF KEY POINTS IN WATER SUPPLY NETWORK

GPRS Data logger with internal pressure senros is designed to work in hard conditions found in manholes. It features with IP68 which guarantees water tightness for 100 days under 1 meter of water. Remote communication and control is provided by the build in GPRS modem and the antenna. Data logger has low power consumption which guarantee battery life time for a period of minimum 5 years in case of a standard working conditions – logging interval 15 minutes, one digital and one analogue inputs activated and data transmission two times per day. As an option device can be equipped with a battery with doubled capacity or to be connected to an external power sources. Data logger features with 2 digital and 2 analog inputs and it can be upgraded with up to 2 internal pressure sensors. Data from the devices are available in web based platform for data visualization and preliminary analysis – QScada. In addition all data can be automatically send to a predefined server. Configuration of the logger is done remote through web base software for data management and analysis.

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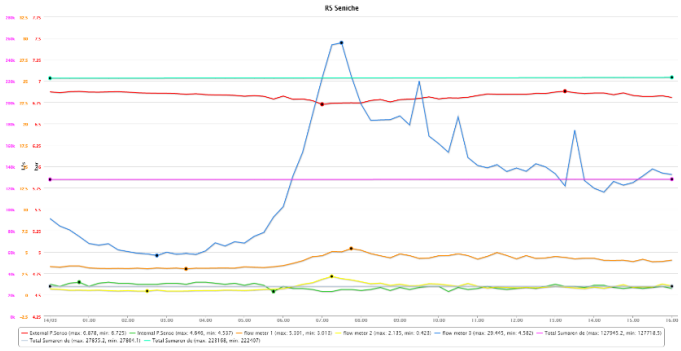
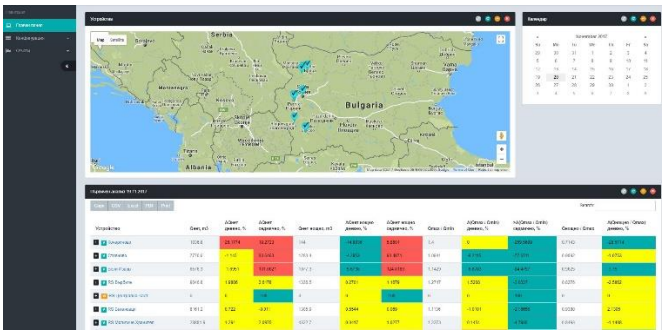
1. Applications:

- District monitoring of flow and pressure at DMA entrance
- Pressure management at key points along water network
- Monitoring and control of pressure reducing valves
- Water level monitoring in reservoirs
- Logging and visualization of any digital and analogue signals



2. Visualization and access to the data:

Q SCADA & ANALYTICS is web based application for management and visualization of all data logged by the devices. Software provide an option for preliminary data analysis based on wide range of standard indicators with an option for development of own indicators with the integrated business intelligent tool. Based on pre-set alarms software automatically can send e-mail in case of a threshold passed. Access to the data is regulated with individual accounts. Q SCADA & ANALYTICS features with high level of data protection. Software is easy for use with user friendly menus and orientation of all devices with GPS coordinates in google maps. All information can be downloaded in Excel, CSV, PDF or JPEG.



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3. Technical specification

Digital inputs	4 digital inputs with frequency 64Hz/256Hz
Analogue inputs	2 analogue inputs 0-10V or 4-20mA
Internal pressure sensor	Up to two internal pressure sensors – 0-10bar or 0-20bar with option for up to 128 logs per second.
Outputs	2 digital outputs 5-24V
Power supply	Autonomous power supply – internal battery pack. The battery should be an integral part of the device and should ensure its operation for at least 5 years in case of 1 digital and 1 analogue inputs log data on every 15 minutes and transfer data once per day. Option for external power supply 12V or 24V
Logging interval	1 second to 24 hours
Data transmission	Pre-set hours / Pre-set time interval / Time schedule
Internal memory	40 000 logs
Water tightness	IP68 up to 100 days under 1 meter of water
Communication	GPRS
Antenna	Compact external antenna attached to the cover of the device with an option for an extension in case of a low coverage.
Configuration	Locally with software or remote through web based software
Local signalization	LED signals for following statuses – GSM modem is not registered; GSM modem insufficient field strength; GSM MODEM registered, sufficient field strength; GSM MODEM registered, good field strength; GSM MODEM registered, excellent field strength; GSM MODEM registered, excellent field strength; SIM card not present; SIM card locked by PIN or PUK
Data access	With individual accounts in web based application or directly data transmission to e pre-set server