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to your data

Gas Measurement

Background

With myDatanet Microtronics Engineering GmbH has developed an innovative wireless measurement acquisition system which is suitable for a wide range of applications. Due to wireless measuring instruments and data transfer via GPRS the collected data is available via the internet in real time at any time.

Problem

An automatic system for corrosion and odour control in sewage systems was demanded. The concentration of H₂S gas in the sewage has to be measured. By optimized dosage of chemicals the development of this gas has to be reduced.

Solution

The measurement device placed in the sewage and the pump control are connected via GPRS with the server. The measurement data from the measuring point and the pump control are calculated by the server and the optimized dose is forwarded to the dosage pump control. Via the internet the dose also can be fine-tuned manually.

Further advantages are the automatic pump control, online configuration and control of dosage pumps, level monitoring and alerting via SMS or e-mail.

Measuring Points

For this application were used gas measurement devices with directly integrated sensor (e.g. myDatasensH₂S) and devices (e.g. myDatalog8PC) which have between 3 and 12 freely configurable inputs (analogue or digital). The pump control provides outputs for the dosage. The power supply for the sensor is provided directly by the measurement device. For mobile devices different types of batteries / accumulators are available. They can be changed on site without any tools. The devices used are also certified for explosion-prone surroundings.

