



STEBATEC[®]
Measure - Control - Regulate

«All in one» pump controls for the waste water system of Burgdorf and Kirchberg

- Compact control covers all requirements
- Off-mains alarm generation with escalation steps
- Modular design using standard components



View of one of the new booths with the compact pump control (right) and the energy meter (left).

Starting situation

Several hamlet on the territory of the municipalities of Burgdorf and Kirchberg had no link-up to the central sewer system. To improve this unsatisfactory situation, the intention was to collect the residential waste water from the different hamlets in pump wells and then dispose of it into the public sewer systems. On the basis of the available connections, totally six smaller

pumping stations and one main pumping station were needed. The pumps were not to be controlled from a central point but were to start operation independently once a defined level was reached at the respective stations. A visual alarm (flashing light in the booth) was to signal pump failure or a defective pump. In addition, for five of the pumping stations, an SMS was also to be generated and sent by the respective control.

Requirement

- Compact pump control with alarm function
- Small footprint solution so that as little land as possible was consumed
- Tried and tested control technology
- Competitive price offer

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Implementation

The totally seven pumping stations were fitted with «all in one» pump controls from STEBATEC. Equipped with microcontrollers, these compact controls integrate all functions required for professional operation: They monitor and control the system, and are powered by an integrated battery so messages can be generated and sent to several freely programmable terminal devices. In addition, they contain a GSM/LAN modem for remote link-up to any higher-level control system. Another advantage of these controls is their

modular design which permits customer and object specific configurations and the replacement of components should any of them ever fail. Besides, standard industrial components are used which are readily available in the market without a long lead time. The pump controls come with touch panel via which parameters can be set on site, in addition to settings via the web. In addition to the controls of the seven pumping stations, energy meters have been installed in the booths on the customer's request; they separately record the power consumed by each pump.



The well of the main pumping station, the only station with two pumps that operate alternately.



The open control cabinet affords a view of the internals of the compact «all in one» control.