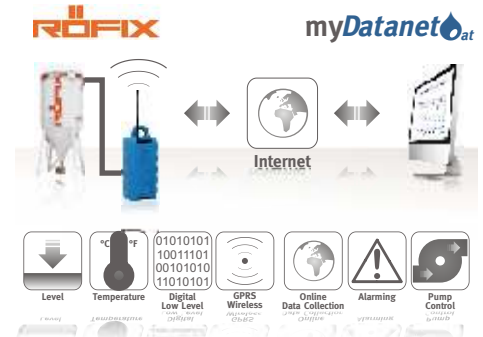


unlimited access to your data

RÖFIX AG: Monitoring of Plaster Silos

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

RÖFIX AG is especially known as manufacturer of ready-mixed plaster and mortar. The filling level and the position of the mobile silos, placed at different construction sites have to be monitored and automatically reported in planned intervals. There are three aspects of particular importance: The acquisition of the accurate filling level by means of first class sensors, a compact, robust, stand-alone measurement instrument which is able to measure without change of battery until the next service interval of the silo as well as a reliable GPS-device.



Solution

The instrument itself, the communication and the GPS-device from Microtronics have been combined with first quality sensors from Vega.

All important information about the measurement site situated directly on the silo can be checked via the internet at every time. In addition all data can be integrated in an ERP-system (e.g. for automated billing).

In case of low filling level, removing the silo out of the designed region, device fault and exceeding of the transfer volume alerts via SMS or e-mail are sent.

Additionally detailed alert lists are displayed and daily reminders are sent if the fault ist not rectified.



Measuring Points

The mobile silos have been equipped with myDatalog₄ devices, which are able to handle 4 freely configurable (analogue or digital) inputs. The battery powered myDatalog₂EX is suited for explosive zones. Battery lifetime is guaranteed for 1.2 years at a measurement and transfer interval of 60 minutes. Therefore the replacement of the batteries can be performed at the same time as the yearly service of the silo. Besides the filling level and the position there are also reported temperature, power supply and GSM-field strength.

