

GST Stadler: Monitoring of Fuel Tank Level

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

EUROL ProduktionsgesmbH grants its filling station-customers a permanently filled fuel tank. The automatic notification in case of low filling level was necessary to deliver the fuel to the customer GST Stadler (Upper Austria) in time.

Solution

All important information about the measuring site situated in the fuel tank can be displayed at any time via the internet. Due to the data being available in real-time and the clear diagrams EUROL as well as the tenant of the filling station are informed about the filling level at any time. Additionally all information can be integrated in an ERP-system.

If the filling level falls below the value of 9,500 litres previously configured for alert EUROL is automatically notified by e-mail. Also in case of device fault or exceeding of the transfer volume an alarm is triggered that is an e-mail or SMS is sent to the configured addresses. In addition detailed alert lists are displayed and daily reminders are sent if the fault is not rectified. According to the responsible persons from EUROL the monitoring of the filling level including automatic ordering has delivered an optimal performance in practice.



Alarme	Alarme	Alarme	Alarme
2010-09-01 10:00:00	11. Abgabe 1 Füllstand Tank 1	OK	4.000,0 L @ 100,0 L/h
2010-09-01 10:00:00	11. Abgabe 1 Füllstand Tank 1	OK	3.000,0 L @ 100,0 L/h
2010-09-01 10:00:00	11. Abgabe 1 Füllstand Tank 1	OK	2.000,0 L @ 100,0 L/h
2010-09-01 10:00:00	11. Abgabe 1 Füllstand Tank 1	OK	1.000,0 L @ 100,0 L/h
2010-09-01 10:00:00	11. Abgabe 1 Füllstand Tank 1	OK	0,000,0 L @ 100,0 L/h

Measuring Points

For the measuring points myDatalog8 devices were used which are able to handle 8 freely configurable (analogue or digital) inputs. The battery powered myDatalogEASY (including an Ex barrier) is suited for explosive zones. Existing analogue or digital sensors with standard interfaces can be integrated in the myDatanet-system without any programming. Besides the filling level there are also acquired temperature, power supply and GSM-field strength.



myDatalog8