

NIVELCO CASE STUDIES

NIVISION GAINING GROUND DOWN UNDER

NIVELCO has been present in Australia for more than a decade and the sales of level measurement instruments have been continuously increasing during these years. Year 2009 is another corner stone because our distributor in co-operation with a local oil industry instrument company offers and installs complex NIVELCO level measurement systems with great results.

MicroTREK, the guided microwave level transmitter from Nivelco is a highly popular solution world wide for the level measurement of various fuels. Level measurement with $\pm 5\text{mm}$ accuracy, built in linearization table and long-term reliable operation are the key elements of the success. Display of ullage as well as the volume of the fuels is a requirement at Australian fuel stations. With the help of MultiCONT multi-channel controller connected to the MicroTREKs one can display simultaneously the measured level, the measured distance, the calculated volume and ullage. Furthermore, 4..20mA current output and relays can be assigned to every measured and calculated value. The RS485 output of the MultiCONT allows the querying of measured data by a PC which together with NIVELCO's Nivision process visualization software results in the implementation of a complex but flexible and transparent level visualization and data storage system.



Nivision software continuously displays the current level in the tanks in real time. Moreover the screen shows numerically the level, the volume, the distance and the ullage in units defined by the user and also the level of fuel in percentage. The program stores the measured and calculated values of every tank in a database in a time frame defined by the user. The stored data can be easily exported to an Excel file or displayed in a trend-window for analysis. Sound and visual signals can be linked to any alarm level and all alarm events are stored in a log file.

Australia with its area of 7,741,220 km² is the sixth largest country of the world. Probably this is why the option of Nivision's web access is especially attractive. The process visualization software is available in a version that allows the user to have access to a running Nivision project with any web browser over the Internet if the host computer is connected to the web. Even more! You can connect several Nivision projects into a network and access summarized data of several sites from any corner of the world.

During the second half of the year 10 complete systems were sold on the remote continent in different configurations. Based on the experience and feedback so far it is sure that the NIVELCO's software solution for a level measurement and visualization system can be expecting growing interest.

The components of the system:

- Ex-version MicroTREK guided microwave level transmitter to measure fuel level
- Ex-version MultiCONT multi-channel controller for processing the HART signals of the transmitters (with optional relay and current output for each channel)
- Nivision process visualization software

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