

Ensuring level monitoring in hazardous areas

Problem case

Our customer is a manufacturer of storage tanks for all types of industries, including petrochemical. They received an order for a number of storage tanks for water, condensate, oil and other fluids. Their customer, a petrochemical company, demanded the tanks to be equipped with level indicators suitable for hazardous areas and having a clear level alarm indication. Since the indicators would be installed close to the tanks, they needed to be all-weather proof.

Fluidwell solution

Installing side-glass indicators was considered, but have experienced that they deteriorate too fast and often. It would require costly maintenance and would make a reliable readout difficult. Additionally, high cost would be involved in the construction and installation process, further complicated by their limitations for space. As a result, this solution was considered too expensive.

Fluidwell provided the solution by combining a basic intrinsically safe analog radar level sensor with the Fo73 level indicator: Programmable with high and low alarms, intrinsically safe for hazardous area classification, loop powered by the level sensor and with a back-up battery to ensure the last read-outs or alarm indication in case of a power break-down.

Another great advantage is the flexibility of being adapted easily for each individual tank. Although it could be mounted directly on top of the level sensor (creating a compact, robust, stand-alone system), the customer chose a 2-wire cable loop powered connection for a remote readout.

The clear alarm indication of the Fo73, a flashing red / green backlight display screen of 90 x 40mm (3,5" x 1,6") instead of a small LED-indicator, made it very easy to check if there where alarm situations, no matter what outdoor weather conditions.

Results

- ✓ Minimize engineering, installation and operation cost.
- ✓ Continuous reliable output in a hazardous area, unaffected by rough (weather) environments.
- ✓ Fit and forget with a long battery life: Virtually maintenance free saving time and cost.

"This multi-applicable combination of sensor and indicator is the perfect solution for all our hazardous area applications", said an installation engineer of the storage tank manufacturer. "We will surely continue to offer this solution in following similar situations".

More advantages

The alarm outputs of the Fo73 can relay critical levels to external equipment. The Fo73 has a simple, sensitive menu structure. There are no confusing abbreviations and difficult codes for programming. This unique feature is shared by all Fluidwell versions, products and series. Know one, know them all, saving time, hassle and cost. You've got to have a Fluidwell!

More information on the Fluidwell F-Series:

[General information Fluidwell F-Series](#)

Information and datasheet [Fo73](#)

[General brochure Fluidwell F-Series](#)

Petrochemical industry



Oil storage tanks



Fo73 Level Monitor



Intrinsically Safe certifications

