

# Oil Producer Reduces Risk of Environmental Impact and Equipment Damage With Vibrating Fork Technology

## RESULTS

- Decreased risk of environmental impact
- Lowered risk of equipment damage
- Reduced risk of incurring maintenance costs

## APPLICATIONS

Tank level monitoring  
Pump protection

## CUSTOMER

Oil Producer in Northern Eurasia

## CHALLENGE

This oil producer had difficulties monitoring the level in their new oil production vessels. Additionally, they had concerns of damaging the pumps that emptied the production vessels. High tank levels risked overflowing and underfilled tanks risked damaging their pumps.

This was a new installation, and the instrument technicians were concerned about the harsh ambient temperatures. They needed something that could function reliably while operating in temperatures as low as  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ).

Without level detection, this customer risked several negative business results. Oil tank overfills risked environmental pollution and loss of expensive product. If pump lines run dry and damage the pump, they would incur high pump maintenance and replacement costs.

## SOLUTION

This customer installed several Rosemount 2120 Vibrating Level Switches to address their level detection concerns. The Rosemount 2120 aluminum housing, Explosion-proof approvals, and IP 66/67 enabled usage in the extreme ambient conditions. Lastly, the special design of the Fork "Fast Drip" allowed for quick response to changing conditions.

The customer now has a reliable protection against overflow of tanks and against pump damage. They decreased risk of environmental pollution, lowered risk of damaged equipment, and reduced the risk of incurring maintenance costs.



*Multiple Rosemount 2120 Level Switches were installed at this oil production station for tank level and pump protection.*



Figure 1: Rosemount 2120 Level Switch

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## RESOURCES

### Emerson Process Management

[http://www.emersonprocess.com/rosemount/industry/oil\\_gas/index.html](http://www.emersonprocess.com/rosemount/industry/oil_gas/index.html)

### Rosemount 2120 Vibrating Fork Liquid Level Switch

<http://www.emersonprocess.com/rosemount/products/level/m2120.html>

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