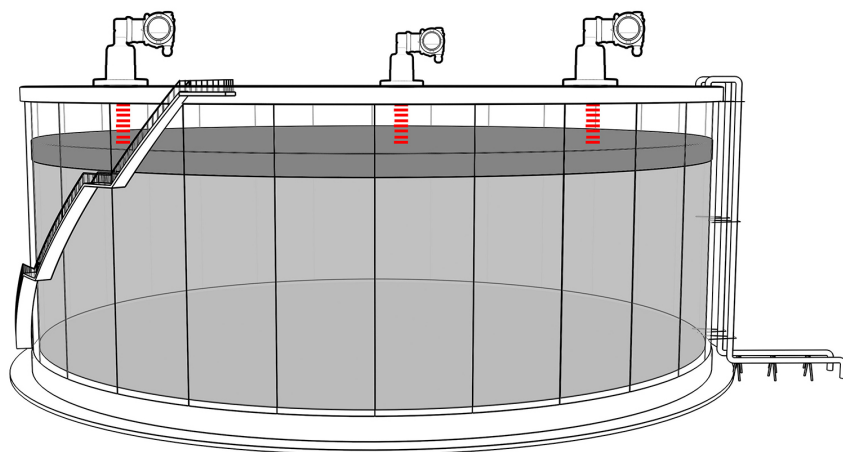


APPLICATION NOTE

# Level measurement

## Floating Roof Terminals



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01 Floating roof  
technology

Terminals are critical for maintaining steady supply for economies globally. Thus, there is a high emphasis on mitigating asset loss due to inclement weather, cross contamination, overfilling, and fugitive emissions. In 2016 API Standard 2350 for overfill protection and prevention was put into place to standardize on compliance. However, the options for technology already in place were limited due to ageing technology.

As we enter the 4<sup>th</sup> industrial revolution, predictive maintenance and early warnings will be key to automating an aging but critical part of global infrastructure. ABB has released a differentiating technology not reliant on float tape, large reflection surfaces for open path radar, and not dependent on specific gravity or dielectric constant. It can be mounted in close proximity to tank walls while also eliminating time consuming echo mapping and false echo suppression.

The LLT100 series laser from ABB encompasses these qualities and offers a simple user interface for fast commissioning and performs reliably without the need for calibration. It's the modern solution to enable terminals to comply with new API standards and add redundancy on mission critical tanks. ABB has successfully implemented this on multiple sites with results exceeding customer's expectations.

The LLT100 is specifically made for industrial applications and harsh environments. It provides continuous, non-contact level measurement capabilities for process automation and inventory management.



Floating roof technology consisting of pontoons and seal liners. The floating roof is critical to prevent fugitive emissions and well as protect assets from contamination and the technology to monitor the height and pitch is substantial. However, most of this technology requires large targets to be mounted and there are limited options for redundancy.

Combine these field devices with ABB's options for PLC integration and it's easy to see why ABB can provide turnkey solutions for your next maintenance or capital project. Contact your local ABB channel partner today to see how your site can be optimized for the future.

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### Programmable Logic Controllers PLCs



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### CP600 control panels platform



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