



The **Portatank®** is a specialist ultrasonic liquid level indicator designed for the non-invasive measurement of tank content level. It is ideal for vessels such as **transformers & switchgears, refrigeration systems and large fire suppression cylinders**

With a quick, reliable and accurate measurement process, **Portatank®** ensures **efficiency and minimal downtime** in operational settings, **enhancing productivity**.

Prevent accidents in industry with the Portatank®

The **Portatank®** is non-invasive and non destructive. This makes it a **safer alternative** to manual measurement techniques, particularly for **hazardous liquids or high-pressure tanks**.

The **Portatank®** features adjustable frequency, gain and holdoff for easy calibration depending on the tank. This allows for use on a variety of different tanks and, crucially, **prevents accidents** by offering an alternative to outdated level gauges that may have become **improperly calibrated** over time.

Highlighted features



✓ **Non-invasive:** No installation costs, No drilling or system shutdowns required.

✓ **Accuracy:** Achieve +/- 10mm precision and clear LIQUID / NO LIQUID LED results.

✓ **Easy operation:** Designed for one-person operation, no additional manpower needed.

✓ **Versatility:** Works seamlessly with tanks of all sizes, ranging from 0.5 m to 15 m.

✓ **Portability:** Take it anywhere and use it across multiple tanks with ease.

How effective is the **Portatank®**?

Background:

Unison Contracting Services Limited, a key contractor for Aurora Energy, was selected to trial the **Portatank®** as part of Aurora Energy's initiative to improve oil level inspections in Long & Crawford (L&C) switchgear and ABB SD Series switchgear units.

Challenges Faced:

- Existing manual methods were inefficient, requiring direct access to the oil reservoir.
- Dipstick readings were time-consuming and subject to human error.
- Ensuring accurate and repeatable oil level measurements was difficult across different switchgear models.
- Switchgear units required non-invasive inspection solutions that could function while systems remained live.

Solution:

Using **Portatank®** the results showed:

- ◆ High accuracy and reliability in detecting oil levels across all tested switchgear units.
- ◆ Seamless configuration and user-friendly setup, requiring minimal training.
- ◆ Time-saving and efficient inspection process, improving operational workflows.

Conclusion:

The **Portatank®** proved effective, reliable and accurate in identifying oil levels in Long & Crawford switchgear units as well as ABB SD RMUs, providing Unison Contracting Services Limited with the capability to efficiently conduct oil level inspections.

With Aurora Energy likely to recommend the use of **Portatank®** units for inspection tanks across transformers and switchgear on Aurora's three networks across the Dunedin, Central and Queenstown regions - this successful trial paves the way for broader adoption of his advanced technology by approved contractors working within these regions, on equipment that the **Portatank®** can be used for.

The **Portatank®** uses our over 30 years of expertise in ultrasonic engineering to provide a platform for liquid level detection in vessels ranging from 0.5m to 15m in diameter, reliably detecting levels even when the systems are live.

Yours Sincerely,

Mr Brent Vink
Asset Lifecycle Engineer
Aurora Energy, New Zealand



Mr Kevin Piere
Designer/Planner
Unison Contracting Services Limited



More details from Saelig Co. Inc.

www.saelig.com/category/coltraco.htm