

AUTOMATION OBJECTIVE

The proper handling of liquids, oil or water, at any well site is an essential requirement. Liquid storage tanks are usually installed at a central location and emptied on a routine schedule. Good tank management can be achieved by the use of a tank level device.

An accurate tank level device provides for the safety of personnel, helps in protecting the environment, reduces operating costs, alerts about theft and gives up-to-date knowledge of liquid production.



AUTOMATION SOLUTION

The **Totalflow** LevelMaster Level Sensor provides level measurement in tanks of 2 to 25 feet in height. Transfer Accuracies of +/- 0.1 inch can be made and an option of +/- 0.05 inch accuracy is available. Dual floats measure both the oil and water in a production tank and an integral temperature sensor measures the fluid temperature. Production reports, alarms, tank measurement trends and inventory management can be viewed remotely with Totalflow WINCCU software or SCADA Vantage. If Oil Transfer accounting is required, the LevelMaster Oil Transfer Application can be used to provide an Electronic Run Ticket.

SOLUTION BENEFITS

- Personnel Safety: eliminate climbing on tanks; avoid entering unsafe H2S environments.
- Cost Reduction: fewer site trips to monitor liquid production; awareness of theft; more efficient scheduling of truck runs; no two-man gauging at H2S wells; never needs calibration.
- Environmental Protection: prevention of tank overruns; instant notification of tank leakage; emergency shutdown.
- Alarm Notification: high/low level and temperature; unauthorized movement; emergency shutdown.
- Improved Inventory Control: +/- 0.1 inch level accuracy; Oil Transfer algorithm; Electronic Run Ticket; automated control of pump and valves.
- Easy Installation: mount XSeries; install LevelMaster; connect solar panel; connect wiring to valves.
- Simple Start-up: enter initialization requirements with PCCU software or WinCCU software.
- Low Power Electronics: helps extend battery life, reduces maintenance expense, and allows for more run time.
- Extendable: the XSeries can also provide flow measurement, alarming, data logging, remote communications, plunger optimization, and nomination control while performing **Tank Level Measurement**.

Totalflow Recommended Equipment:

- Qty 1 – Model XSeries Flow Computer or Remote Controller with Solar Panel
 - Qty 1 – Model LevelMaster Level Sensor
 - Qty 1 – PCCU Laptop Communication Software
 - Options – Radio for Remote Communications; WinCCU Remote Host Software
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