

AUTOMATION OBJECTIVE

Correct measurement of produced oil is a goal of every production company. Company success can be directly related to the value placed on accurate Oil Transfer. The measurement of Tank Levels to determine Oil Transfer provides two operational benefits from one measurement system: **Tank Level Monitoring and Accurate Fluid Measurement.**



AUTOMATION SOLUTION

The **Totalflow** Oil Transfer Application can be operated in any Totalflow XSeries product. Level measurement Transfer Accuracies of +/- 0.1 inch (+/-0.05 inch optional) are made possible when using the Totalflow LevelMaster Level Sensor. Dual floats measure both the oil and water in a production tank and an integral temperature sensor measures the fluid temperature. Upon completion of a truck load the Oil Application builds an electronic run ticket by using a strapping table and API VCF temperature correction. Optional inputs of density and BS&W can be utilized by the Oil Transfer Application to provide corrected volume. Production reports, alarms, tank measurement trends and inventory management can be monitored remotely by Totalflow WinCCU software or SCADAverage.

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 over runs; instant notification of tank spills; 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 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, allows for more run time.
- **Extendable:** the XSeries product can also provide flow measurement, alarming, data logging, remote communications, plunger optimization and nomination control while performing **Tank Level Oil Transfer.**

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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