

# Tank level measurement

## XSeries and XCORE applications



The proper handling of liquids, oil or water, at any well site is an essential requirement.

### Measurement made easy

01 Totalflow applications can be used with either a Totalflow XSeries device, or a Totalflow XCORE device.

### 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.

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## 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 SCADAventure™. If oil transfer accounting is required, the LevelMaster Oil Transfer Application can be used to provide an Electronic Run Ticket.

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## Recommended equipment

Qty 1 – XSeries FCU/RTU or X<sub>CORE</sub> RTU with solar panel  
Qty 1 – LevelMaster level sensor  
Qty 1 – PCCU Laptop communication software

Options – Radio for remote communications; WinCCU remote host software

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## Solution benefits

### Personnel safety

Eliminate climbing on tanks; avoid entering unsafe H<sub>2</sub>S environments.

### Cost reduction

Fewer site trips to monitor liquid production; awareness of theft; more efficient scheduling of truck runs; no two-man gauging at H<sub>2</sub>S 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/X<sub>CORE</sub>; 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

Any XSeries/X<sub>CORE</sub> product can also provide flow measurement, alarming, data logging, level measurement, remote communications, and plunger optimization, and nomination control while performing valve control.