Aqua TROLL 500/600 Crude Oil Sensor Overview

The In-Situ crude oil sensor measures crude oil levels in natural water, surface water, groundwater, produced water and aquaculture applications.

⚠️ The crude oil sensor detects dissolved oil in water. It's not intended for use in pure crude oil, which can destroy the sensor and instrument. If the probe or sensor comes into contact with crude oil, clean it immediately with dish soap and water.

Getting Started

1 Install sensor.

Rinse sensor with clean water before use.

Remove restrictor from the instrument.

Remove sensor port plug if installed.

Lubricate o-ring at bottom of sensor.

Install sensor.

Place restrictor on instrument in calibration mode.

⚠️ Do not look directly at the sensor LED or point it at the eyes. Doing so can cause eye damage from UV light emitted by the LED.
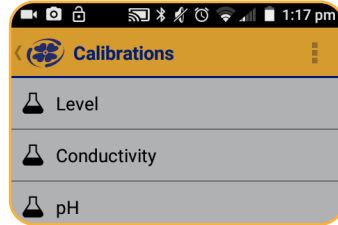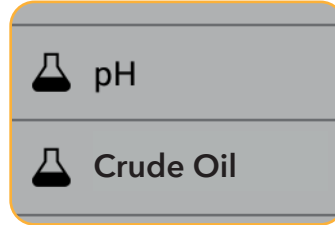
2 *Calibrate and deploy.*

✓ For best results, use the same sonde to calibrate and deploy the crude oil sensor. See the instrument manual for complete calibration details.

Connect to the instrument with the VuSitu mobile app.

Select Calibrations from the menu.

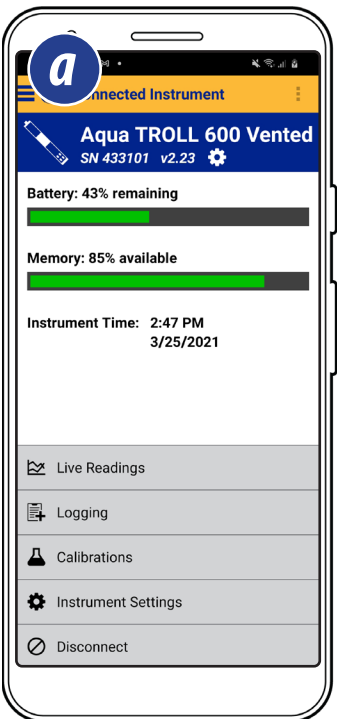Choose the Crude Oil option and follow the instructions.

Make sure the restrictor is in deployment mode before use.
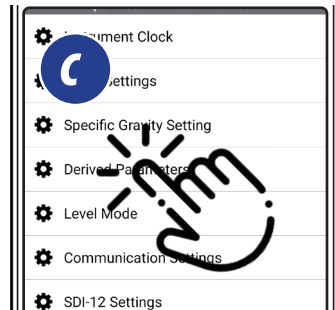
Using Derived Parameters

✓ VuSitu can estimate the value of some water quality parameters based on the value of others. A coefficient or scale factor is required.
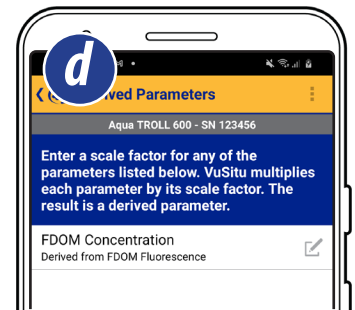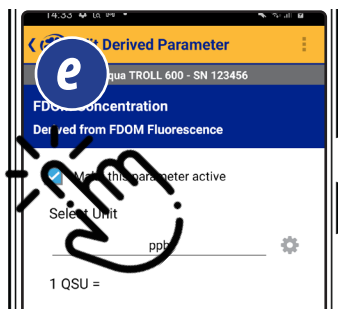

a

Aqua TROLL 600 Vented
SN 433101 v2.23 ⚙

Battery: 43% remaining

Memory: 85% available

Instrument Time: 2:47 PM
3/25/2021

Live Readings
Logging
Calibrations
Instrument Settings
Disconnect

Connect to the instrument with VuSitu.

b

Go to **Instrument Settings**.

c

Instrument Clock
Settings
Specific Gravity Setting
Derived Parameters
Level Mode
Communication Settings
SDI-12 Settings

Tap **Derived Parameters**.

d

Derived Parameters
Aqua TROLL 600 - SN 123456

Enter a scale factor for any of the parameters listed below. VuSitu multiplies each parameter by its scale factor. The result is a derived parameter.

FDOM Concentration
Derived from FDOM Fluorescence

Choose a derived parameter. Options vary by installed sensors.

e

Derived Parameter
Aqua TROLL 600 - SN 123456

FDOM Concentration
Derived from FDOM Fluorescence

Make this parameter active

Select Unit
ppb

1 QSU =

Tap the checkbox next to **Make this parameter active**.

f

Aqua TROLL 600 - SN 123456

FDOM Concentration
Derived from FDOM Fluorescence

✓ Make this parameter active

Select Unit
ppb ⚙

1 QSU =
8 ppb
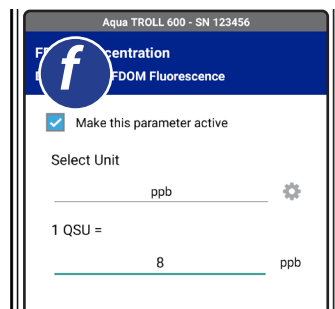
Choose a unit and enter a scale factor.

g

Cancel | Save

Tap **Save**.