![In-Situ logo]

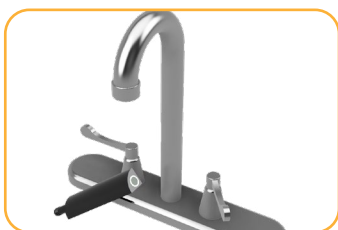# Fluorescent Dissolved Organic Matter

Aqua TROLL 500/600/700/800 FDOM Sensor

The In-Situ FDOM sensor measures FDOM (Fluorescent Dissolved Organic Matter) levels in natural water, surface water, groundwater, produced water and aquaculture applications.

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.

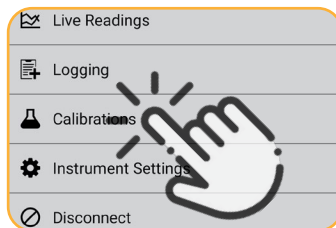Install restrictor in calibration mode.

⚠️ 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.
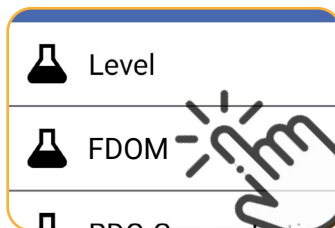
2 Calibrate and deploy.

Connect to the instrument with the VuSitu mobile app.

- Live Readings
- Logging
- Calibrations
- Instrument Settings
- Disconnect

Select Calibrations from the menu.

- Level
- FDOM
- RDO Concentration

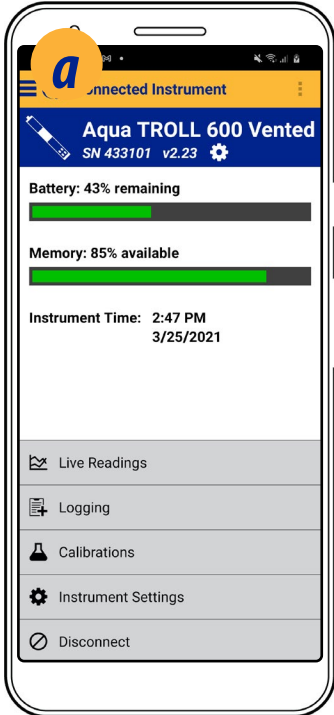Choose the FDOM option and follow the instructions.

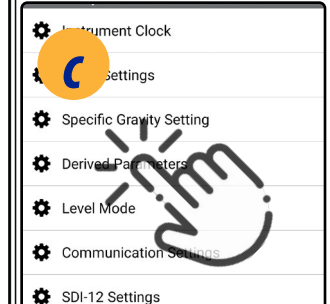Make sure the restrictor is in deployment mode before use.

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.
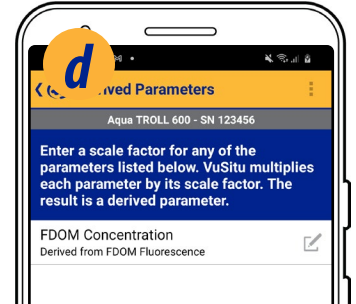
a

Aqua TROLL 600 Vented
SN 433101 v2.23
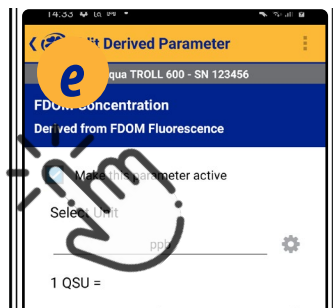
Battery: 43% remaining

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

Readings
Logging
Calibrations
Instrument Settings
Disconnect

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

Edit 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
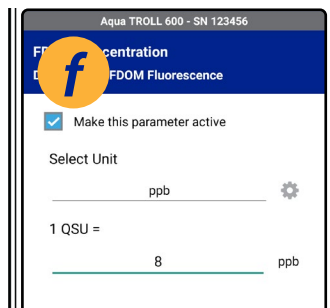
Choose a unit and enter a scale factor.

g

Cancel   Save

Tap **Save**.