

OilWatcher™

Low-Cost Online Monitor for Oil-in-Water Content Measurement



Functions

Measuring Oil Content in Water and Spike Detection
Monitoring Trends & Detecting Changes
Real-Time & Historical Data for Process Monitoring
Automated Report Generation and Dissemination
Integrated System can Control Pumps, Valves, etc.

Flexible Configurations

Side Stream Online
Single Sample
Customized Configurations

Selectable Ranges

0.1 – 5000 mg/L or ppm Oil in Low, Med, High.
Free-Oil Models (up to 10% free oil)
Range of Solids: 0-500 ppm (that oil can be accurately measured within)

Use and Maintenance

Simple to Install, Calibrate, and Operate
Minimal Maintenance Requirements
Fully Automated or Manually Controlled Cleaning

Applications

Production: Separation, Filtration, SWDs
Produced Water: Treatment, Storage, Reuse, Disposal
Industrial: Process Waters, Discharge to Municipal
Chemical: Effectiveness and Dosing Optimization
Metal: Production, Hot/Cold rolling, Hydraulic Leaks

Measurement Principles

Fluorescence Combined with Light Transmission
Automatic Selection of Measurement Principle

Measurement Frequency

User Selectable (typically 30 seconds per reading)
As fast as 10 seconds per reading

Access and Control

Local: Wireless Keyboard & Mouse, Flash drive, VNC,
FTP Remote: LAN, Internet, Wi-Fi, Mobile Data
Accessible from Computers, Tablets and Cell Phones
Reports Available Locally, and Emailed or Texted
Modbus TCP/IP, optional 4-20 mA & Modbus RS 485
Analog and Digital Input Available



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OilWatcher is highly configurable to meet the specific needs of each application.

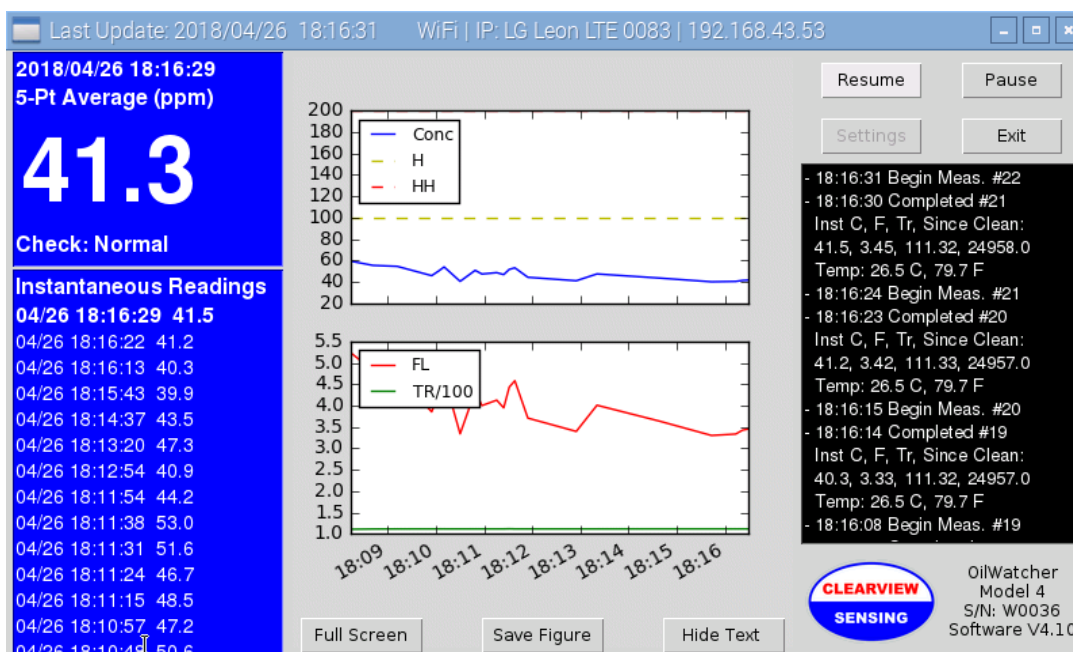
This includes:

- Cleaning Options
- Location Ratings
- Output Options
- Network Connection
- Email and/or Text Alerts
- Integrated Control of Pumps and Valves

OilWatcher's user-friendly Graphical User Interface provides oil content trends, raw data, and monitor status information.

Auxiliary functions are also available:

- Control of alert type (email, text) and condition (low, high oil content)
- Control of water type
- Option to save results/logs to flash drive
- Control of cleaning frequency/duration



OilWatcher has the ability to measure large ranges of oil types and concentrations. It can also accurately measure oil when the water's turbidity changes significantly due to the presence of solids, gas bubbles, or when the color of the water varies.



100 ppm oil
No Solids



20,000 ppm oil
No Solids



493 ppm oil
50 ppm Iron Oxide



487 ppm oil
230 ppm Iron Oxide