

# HD-1000

## Handheld analyzer



Fluorescence



Spectroscopy

The Advanced Sensors HD-1000 is a portable handheld Oil in Water analyzer with an integrated probe to measure oil directly in water samples. The industrial flexible probe allows for real-time measurements, with spectral analysis which enables oil type and chemical identification. These features make the HD-1000 a unique and revolutionary device for the Oil in Water analysis industry.

## Features

- Real-time measurement
- Both direct Oil in Water measurement and solvent extraction measurement
- Laser Induced Fluorescence (LIF)
- Various measurement ranges configurable (0-1ppm, 0-10ppm, 0-100ppm [...] up to 0-3,000ppm)
- Integrated spectral analysis (oil recognition and chemical identification)
- Industrial, robust flexible optical probe for ease of measurement in various applications
- Incorporated touch screen with auto orientation
- On screen notepad
- On screen video user manual
- Bluetooth and Wi-Fi communications (4G optional)
- Portable and light weight (0.8kg)
- User interface available in Arabic, French, Norwegian, Portuguese and Spanish; other languages available on request.



## Benefits

- No solvents or consumables necessary
- Instantaneous measurement: zero sample processing required
- Automatic software update (optional)
- Measurement data log can be shared via email, Bluetooth or Wi-Fi
- Downloadable oil calibration files from cloud based library



## Measurement Performance

Measurement principle	Laser Induced Fluorescence
Range	0-3,000ppm
Accuracy	+/- 1% of measurement range
Repeatability	>99%
Response Time	<1 second, continuous results

## Operating conditions

Process Temperature	0°C to 100°C
Operational Ambient Temperature	-5°C to +50°C

## Spectral Analysis Specification

Emission Wavelength Range	400-1,100nm
Resolution	0.5nm

## Utilities

Power	Rechargeable battery (3,000 mAh) (100v-240v)
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## Material

Enclosure material	Aluminium
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## Weight and Dimensions

Weight	0.8kg
Footprint	152mm L x 85mm W x 52mm D
Flexible Probe length	0.7m (additional length optional)

## Communications

Wireless (Wi-Fi)	Standard
Bluetooth	Standard
Internal Data Storage	9GB (expandable to 41GB)
Security	Password protection