

HD-1000

Handheld Oil in Water 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 identification. These features make the HD-1000 a unique and revolutionary device for the Oil in Water analysis industry.

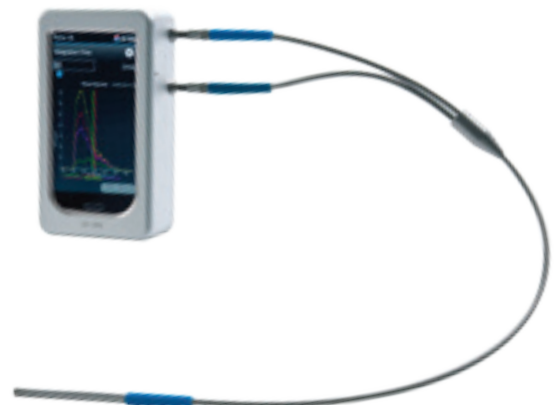
Features

- 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
- 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

- Easy to use
- No solvents or consumables necessary
- Instantaneous measurement: zero sample processing required
- Spectral analysis allows oil recognition and the presence of chemicals
- 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 (LIF)
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) 5Vdc (Charging device required: input 100-240VAC, Output 2A)
Material	
Enclosure material	Aluminium
Weight and Dimensions	
Weight	0.8kg
Dimensions	85W x 152D x 52H mm
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