

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.

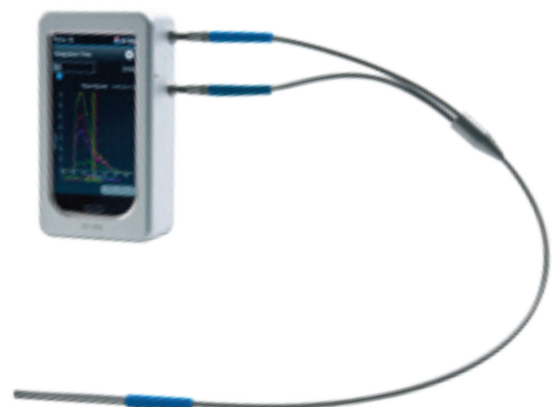
Features

- 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 | |
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| 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 | 1.2m |
| Communications | |
| Wireless (Wi-Fi) | Standard |
| Bluetooth | Standard |
| Internal data storage | 9GB (expandable to 41GB) |
| Security | Password protection |