

# SA-100/1000

## Side Stream Oil in Water Analyzer



Ultrasonics



Fluorescence



Spectroscopy

The SA-100 is a side stream Oil in Water analyzer suitable for non-hazardous areas; it uses fluorescence to provide continuous accurate measurements of oil concentrations in water. The SA is ideally suited for marine, industrial and waste water oil in water monitoring.

In addition to the SA-100 features, the SA-1000 model offers spectral analysis.

### Features

- Patented ultrasonic cleaning
- Laser Induced Fluorescence (LIF)
- Side stream format
- Various measurement ranges configurable 0-3,000 ppm range
- Measurement repeatability  $\pm 1\%$  of full scale
- Remote management and diagnostics
- Easy to install (no sample conditioning)
- Multiple communications options - 4-20mA, HART, Modbus, Extended Ethernet
- Meets stringent IMO requirements for bilge discharge monitoring
- Touch screen interface
- Password control
- Optional integrated spectrometer

### Benefits

- Easy to use
- Low Cost of Ownership (COO) with no routine maintenance
- No degradation of signal or recalibration required
- Side stream format offers improved sample control
- Droplet size compensation with homogenized samples (optional)
- Sample point facilitates laboratory correlation
- Remote control and monitoring (ideal for un-manned locations and remote process monitoring)



<b>Measurement Performance</b>	
Measurement principle	Laser Induced Fluorescence (LIF)
Range	0-3,000ppm
* User may select any desired measurement from 0-10ppm, 0-100ppm [...] up to 0-3,000ppm	
Repeatability	±1% of measurement range
Response time	1 Second, continuous results
<b>Operating Conditions</b>	
Process temperature	Up to 100°C
Process pressure	Up to 15 barg
Process flow	5-25 l/min
Operational ambient temperature	-20°C to 50°C
Cleaning	Ultrasonic (automatic)
<b>Utilities</b>	
Power supply	110 or 230 VAC (pre configured)
Power frequency	50/60 Hz
Power consumption	60W normal, 300W peak
<b>Certification</b>	
Ingress protection	IP65
Enclosure material	316L SS
Analyzer	CE compliant
<b>Weight &amp; Dimensions</b>	
Weight	30.4Kg (excluding stand)
Dimensions	420W x 220D x 330H mm
Clear space	450mm front and rear
Mounting	Optional stand or wall mount
<b>Communications</b>	
4-20 mA (1)	Passive
Ethernet	Standard
HART, Modbus, Extended Ethernet	Optional**
Digital Input (1), Digital Output (2)	Standard
Remote access	Standard
Internal data storage	>10 years
Security	Multiple level password protection
<b>Options</b>	
Pipe diameter	1/2" standard, options available
Wetted parts	316L SS
Piping connections	Standard threaded NPT (flanges optional)
<b>Additional Features</b>	
Maintenance	None - Automatic Cleaning
Display	Touch screen PC LCD Display

\*\* HART - PPM internal temperature, flow status - START cycle and STOP cycle functionality only  
 MODBUS RTU only; implemented via HART to MODBUS converter