

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.

The SA-1000 offers the same features as the SA-100 with the addition of spectral analysis.

Features

- Patented ultrasonic cleaning
- Laser Induced Fluorescence (LIF)
- Side stream format
- Compact Unit with touch screen operation and set-up
- Various measurement ranges configurable 0-3,000 ppm range
- Accuracy 1% and measurement repeatability 99%
- Remote management and diagnostics
- Easy to install (no sample conditioning)
- Multiple communications configurations - 4-20mA, HART, Modbus, Extended Ethernet or WiFi
- Meets stringent IMO requirements for bilge discharge monitoring
- Touch screen
- Password control
- Optional integrated spectrometer

Benefits

- Easy to use
- Low Cost of Ownership (COO) with zero routine maintenance
- No degradation of signal or recalibration
- 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)



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
Process pressure	0-15 barg
Process flow	0-25 l/min
Operational ambient temperature	-20°C to 50°C
Cleaning	Ultrasonic (automatic)
Utilities	
Power supply	110 or 230 VAC (pre configured)
Power frequency	50/60 Hz
Power consumption	60W normal, 300W peak
Certification	
Ingress protection	IP65
Enclosure material	SS 316L
IMO MEPC-107 (49)	IMO Certified, ABS, US Coast Guard, BV
Weight & Dimensions	
Weight	20kg (excluding stand)
Dimensions	420W x 220D x 330H mm
Clear space	450mm front and rear
Mounting	Optional stand or brackets
Communications	
4-20 mA	Passive
Ethernet	Standard
HART, Modbus, Wireless (Wi-Fi), Extended Ethernet	Optional
Remote access	Standard
Internal data storage	>10 years
Security	Multiple level password protection
Options	
Pipe diameter	1/2" standard, options available
Wetted parts	SS 316L
Piping connections	Standard threaded NPT (flanges optional)
Additional Features	
Maintenance	None - Automatic Cleaning
Display	Touch screen PC LCD Display