

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
- Accuracy 1% and measurement repeatability 99%
- Remote management and diagnostics
- Easy to install (no sample conditioning)
- Multiple communications options - 4-20mA, HART, Modbus, Extended Ethernet or WiFi
- 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 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
* User may select any desired measurement from 0-100ppb, 0-10ppm, 0-1,00ppm [...] up to 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	30.4Kg (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