

SA-100P/P2 - 1000P/P2

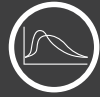
INLINE OIL IN WATER ANALYZER



Ultronics



Fluorescence



Spectroscopy

The SA-100P and the SA-100P2 are respectively single and dual inline probe Oil in Water analyzers suitable for non hazardous areas; they both use fluorescence to provide continuous accurate measurements of oil concentrations in water. The additional probe on the SA-100P2 allows monitoring of two process points simultaneously with dual readings displayed on the analyzer. Reliable real-time data enables operators to take accurate measurements and to improve efficiency enabling cost reductions. The SA Series is ideally suited for marine, industrial and general waste water monitoring.

In addition to the standard probe features, the 1000 models offer spectral analysis.

FEATURES

- Patented ultrasonic cleaning
- Laser Induced Fluorescence (LIF)
- Configurable measurement ranges (0-10 ppm, 0-100 ppm [...] up to 20,000 ppm)
- Measurement repeatability $\pm 1\%$ of full scale range
- Remote management and diagnostics
- Easy to install (no sample conditioning required)
- Multiple communications configurations – 4-20 mA, HART, Modbus, Extended Ethernet
- Second probe for simultaneous dual measurement (SA-100P2/1000P2)
- Single or double block & bleed valves are available for hot insertion or extraction of probes
- Optional integrated spectrometer
- Secure access with (2) levels
- Operates using Microsoft Windows 7
- Auto-tuning functionality
- Digital Input & Output

BENEFITS

- Robust and reliable
- Easy to use
- Simultaneous measurement of two streams for one device (SA-100P2 and SA-1000P2)
- Low Cost of Ownership (COO) with no routine maintenance
- No degradation of signal or recalibration
- Inline probe allows for analyzer to be located up to 50m from probe location
- Inline probes are installed directly into process pipes
- Remote control and monitoring (suitable for un-manned locations and remote process monitoring)



Measurement Performance	
Measurement principle	Laser Induced Fluorescence (LIF)
Cleaning	Ultrasonic (automatic)
Range	0-20,000 ppm*
Repeatability	±1% of measurement range
Response time	1 Second, continuous results
Operating Conditions	
Process temperature	Up to 200°C
Process pressure	Up to 100 barg
Process flow	Nominal 10 m/s
Operational ambient temperature	-20°C to 55°C
Spectrometer Specifications (1000 models only)	
Emission wavelength range	400-1,100 nm
Resolution	0.5 nm
Utilities	
Power supply	110 or 230 VAC (Pre-configured)
Power frequency	50 or 60 Hz
Power consumption	60 W normal, 300 W peak
Certification	
Ingress protection	IP65 for enclosure and IP66 for probe (except IP68 for wetted portion)
Enclosure material	316L SS
Analyzer	IMO MEPC-107 (49)
Weight & Dimensions (for shipping)	
Weight (including stand, termination box and isolation switch)	Side stream or single probe 200 kg Dual probe 220 kg
Dimensions	L 92 cm x W 83 cm x H 148 cm (except 980 mm probes) L 92 cm x W 83 cm x H 176 cm (with 980 mm probes)
Communications	
4-20 mA (I)	Passive, Configurable for measurement readings/temperature
Digital Input (I)	Start/Stop cycle control
Digital Output (s)	Configurable as alarm contacts
Remote access	Windows Remote Desktop
Internal data storage	>10 years
Security	2 level password protection
Optional Communications	
Second 4-20mA	Passive, Configurable for measurement readings/temperature
HART	Yes
Modbus RTU	Implemented via HART to Modbus converter
Extended Ethernet	2 wire connection, capable of 1.6Km distance
Additional Information	
Hot insertion/extraction	Optional using single or double block and bleed valves
Flange fitting	2" ANSI RF
Wetted parts	316L SS (other materials available upon request)
Conduit length	Up to 50 m [‡]
Dual probe (SA-100P2/1000P2)	Allows dual simultaneous measurement

* dependent on sample matrix & instrument configuration. User may select any desired measurement from 0-10ppm, 0-100ppm [...] up to 20,000ppm

‡ Please contact ASL to discuss conduit length over 30m