

EX-100P/1000P

In-Line Oil in Water Monitor - Analyzer

Since the introduction of Advanced Sensors revolutionary oil in water analyzers in 2005 with the EX-100, Advanced Sensors have continually introduced ground breaking products.

The EX-100P followed the EX-100/1000 to provide in-line probe solutions to customers and was the first to offer a routine maintenance free in-line probe analyzer to provide continuous uninterrupted accurate measurements of oil concentrations. Finally, reliable real time data enabled operators to take accurate measurements and thus take the next step to improve efficiency of processes and thus cost reductions.

Features

- Zero routine maintenance using patented ultrasonic cleaning mechanisms and software
- Laser Induced UV Fluorescence
- Unparalleled high concentration measurement capabilities allowing user configurable ranges from 0-10 PPB, to 0-20,000 PPM
- 1% accuracy and 99% measurement repeatability
- Complete remote capabilities
- No flow conditioning or flow control
- Multiple communications configurations – 4-20mA, HART, Modbus, Ethernet, ADSL, etc..
- Optional second probe for simultaneous dual measurement (see EX-100P2/1000P2 datasheet)
- Optional Integrated Spectrometer, turns the EX-100P into EX-1000P - see Spectrometer in Technology Section of website

Benefits

- With no consumables and no regular operator intervention, the Advanced Sensors analyzer offers very low Cost Of Ownership (COO)
- By using Laser Induced Fluorescence (LIF), the analyzer avoids standard fluorescent lamp issues, namely, warm up requirements and deterioration of lamps over time resulting in accuracy issues
- Advanced software capabilities allow complete remote control and monitoring. Ideal for un-manned and remote locations
- Easy to use windows based interface



EX-100P/1000P Technical Specification

Measurement Performance	
Measurement principle	Laser Induced UV Fluorescence
Range	0 - 20,000 PPM
* User may select any desired measurement from 0-10ppb, to 0-20,000ppm	
Accuracy	±1% of measurement range
Repeatability	> 99%
Response Time	< 1 Second, continuous results

Operating Conditions	
Process Temperature	0°C to 100°C (180°C optional)
Process Pressure	0-35 barg (180 barg optional)
Process Flow	up to 10m/s
Operational Ambient Temperature	-20°C to 55°C
Cleaning	Ultrasonic (automatic)

Spectrometer Specification (1000 models only)	
Emission Wavelength Range	400-1,100nm
Resolution	0.5nm

Utilities	
Power Supply	110 or 230 VAC
Power Frequency	50 or 60 Hz
Power Consumption	60W normal, 300W peak
Instrument Air	Not Required

Certification	
Ingress Protection	IP68 Probe, IP66 Enclosure
Enclosure Material	Aluminium (SS 316L optional)
ATEX Exd II 2 G IIB T4, IECEx, CSA, Class 1 Div 1	

Weight & Dimensions	
Weight	85kg + inc. stand
Footprint	600W x 640D mm
Clear Space	500mm front and rear
Height	1.12m typical (optional variants)

Communications	
4-20 mA	Passive
HART, Modbus (over HART), Wireless (Wi-Fi), 2-wire ADSL	Optional
Ethernet	Standard
Remote Access	VNC, Master Remote Manager
Internal Data Storage	>10 years
Security	Multiple level password protection

Additional Information	
Hot insertion/extraction	Optional
Flange Fitting	2" ANSI standard
Wetted Parts	SS 316L (option of Hastelloy, Inconel, CR25, CR22, Titanium, Monel)
Dual Probe	Optional (allows dual simultaneous measurement)
Conduit Length	3m – 50m