

Oil in Water Analytical Experts

EX-100P/P2 - 1000P/P2 INLINE OIL IN WATER ANALYZER



605 PPM

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The EX-100P and the EX-100P2 are respectively a single and dual inline probe Oil in Water analyzers that use fluorescence to provide continuous accurate measurements of oil concentration in water. The additional probe on the EX-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.

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

FEATURES

- Patented ultrasonic cleaning
- Laser Induced Fluorescence (LIF)
- Second probe for simultaneous dual measurement (EX-100P2/1000P2)
- Effective means of monitoring performance of separation equipment both inlet and outlet (EX-100P2/1000P2)
- Both readings available on screen and via output signals (EX-100P2/1000P2)
- Single or double block & bleed valves are available for hot insertion
 or extraction of probes
- Configurable measurement ranges (0-10 ppm [...] up to 0-20,000 ppm)
- Measurement repeatability $\pm 1\%$ of full scale range
- Remote management and diagnostics
- Easy to install (no sample conditioning required)
- Multiple communications options 4-20 mA, HART, Modbus, Extended Ethernet
- Optional integrated spectrometer
- Auto tuning functionality
- Digital input & output

BENEFITS

- Robust and reliable
- Easy to use
- Simultaneous measurement of two streams for one device (EX-100P2 and EX-1000P2)
- Low Cost of Ownership (COO) with no routine maintenance
- No degradation of signal or recalibration required
- Inline probes allows for analyzer to be located up to 30m from probes location
- · Inline probes are installed directly into process pipes
- Remote control and monitoring (suitable for un-manned locations and remote process monitoring)

EX-100P/P2 - 1000P/P2

TECHNICAL SPECIFICATION

Measurement Performance	
Measurement principle	Laser Induced Fluorescence (LIF)
Cleaning	Ultrasonic (automatic)
Range	0-20,000 ppm*
Repeatability	±1% of full scale range
Response time	1 Second, continuous results
Operating Conditions	
Process temperature	Up to 200°C
Process pressure	Up to 100 barg
Flow Velocity	Nominal 10 m/s
Operational ambient temperature	-20°C to 55°C
Spectrometer Specification (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	IP66 / IP68 for wetted portion of probe
Enclosure material	316L SS
Analyzer	ATEX / IECEx: EXII 2G d/de IIB T3/T4 Gb
	Canada + USA: Class 1 Division 1 Groups C & D T3/T4 Class 1 Division 2 Groups A, B, C, D, T3/T Class 1 Zone 2 AEx d/de IIB T3/T4
	IMO MEPC-107 (49)
Weight & Dimensions (for shipping)	
Weight (including stand, termination box and isolation switch)	Single probe200 kgDual probe220 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 (1)	Passive, Configurable for measurement readings/temperature
Digital Input (1)	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 (EX-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

 \ddagger Please contact ASL to discuss conduit length over 30m

