

EX-100P2/1000P2



Ultrasonics



Fluorescence



Spectroscopy

Inline Oil in Water Analyzer

The EX-100P2 is an inline dual probe Oil in Water analyzer that uses fluorescence to provide continuous accurate measurements of oil concentrations in water. The additional probe allows to monitor two process steps 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 EX-1000P2 offers the same features as the EX-100P2 with the addition of spectral analysis.

Features

- Patented ultrasonic cleaning
- Effective means of monitoring performance of separation equipment both inlet and outlet
- Laser Induced Fluorescence (LIF)
- Inline probe format
- Both readings available on screen and via output signals
- Double valve hot insertion/extraction device
- Various measurement ranges configurable (0-100ppb, 0-10ppm, 0-1,00ppm [...] up to 0-20,000ppm)
- Accuracy: $\pm 1\%$ 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
- Optional integrated spectrometer

Benefits

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



Measurement Performance	
Measurement principle	Laser Induced Fluorescence (LIF)
Range	0 - 20,000ppm
* User may select any desired measurement from 0-100ppb, 0-10ppm, 0-100ppm [...] up to 0-20,000ppm	
Accuracy	±1% of measurement range
Repeatability	> 99%
Response time	< 1 Second, continuous results
Operating Conditions	
Process temperature	0°C to 200°C
Process pressure	0-35 barg (180 barg optional)
Process flow	0 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 (pre configured)
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	SS 316L
ATEX Exd II 2 G IIB T4, IECEx, USA and Canada Class 1 Div 1	Purged air not required
IMO MEPC-107 (49)	IMO Certified, ABS, US Coast Guard
Weight & Dimensions	
Weight	120kg + inc. stand
Dimensions	600W x 640D x 1120H mm
Clear space	500mm front and rear
Communications	
4-20 mA	Passive
Ethernet	Standard
HART, Modbus, Wireless (WiFi), Extended Ethernet	Optional
Remote access	Standard
Internal data storage	>10 years
Security	Multiple level password protection
Additional Information	
Hot insertion/extraction	Optional
Flange fitting	2" ANSI RF standard
Wetted parts	SS 316L (option of CR22, CR25, Monel, Inconel, Hastelloy, Titanium)
Conduit length	3m – 50m