

DATA SHEET

Introduction

OIW EX 100 and 1000 Oil in Water Analyser

Advanced

Advanced Sensors Ltd Oil in Water Analyser System known as the OIW-EX100 or OIW-EX 1000. The system is designed to monitor the residual hydrocarbon content of pipelines carrying produced water at oil production facilities and refineries etc....

The OIW-EX100 uses laser radiation to energise the contents of the measurement chamber with an incident optical wavelength. A sensitive tuned detector at a different wavelength is then used to measure the stimulated fluorescence value. This fluorescence value is used to determine the proportion of hydrocarbons within the chamber.

Technical Summary

ANALYSER	OIW EX 100/1000
- Analytical principle	UV Fluorescence Class 3 industrial Laser
- Range	0-3000ppm Standard (20,000ppm enhanced)
- Accuracy	+/- 1%
- Repeatability	+/- 1%
- Operating temperature	-15o C to 80o C
- Operating conditions for sample	No flow control or pressure regulation required
. Flow (mini / maxi)	0.5 / 20 ltr/min
. Temperature (mini / maxi)	0o C – 100o C
. Pressure (mini / maxi)	0- 12 bar (0-125psi)
- Response time	< 1 second
'- Cycle time	continuous
Weight	Approx. 79 Kg (enclosure plus measurement chamber, stand & valve)
Footprint	600W X 640D mm It is recommended 500mm be maintained at the front and rear of the unit for user access.
- Type and Qty of signal	Galvanic isolation (free from earth) / 1
- Interface	4-20mA/ Ethernet/ RS232 & 2-wire Ethernet
- Power supply	230 VAC, 50 HZ
- Power Consumption	300W
- Internal Data Logging	>10 years
- Tropicalized	Yes
Electrical area classification certificate / N°	ATEX Ex II 2 G Exd IIB T4
Standards	EN61010-1:2001 Safety requirements for electrical equipment for measurement, control and laboratory use
Enclosure rating	Ingress Protection IP65
CALIBRATION	Annual Inspection
Power Consumption	300W
Required Utilities	230VAC & instrument air
Sample Conditioning System	Integrated Ultrasonic Transducer
- Diameter of pipes	1" PN16
- Fitted with a sample take off for lab. / location.	Yes
Operational Notes	Self cleaning No small pipes Turbidity Compensation Viewing window in sample chamber. Large sample chamber 300ml. Network multiple units to Control Centre.

OIW EX 100/1000 Mechanical Drawings

