INOV8™
Customer Inspired Innovation

EXP Oil in Water Analyser

Intelligent Control - Probe

Customer inspired innovation

Leveraging decades of innovation experience for the Oil & Gas industry, Inov8™ Systems introduce the next generation of products for an evolving market with dynamic demands.

Features

- New **RapidWave**™ ultrasonic self cleaning
- Low power DC voltage requirements - other options including AC available
- Multiple Communication options for Management Capabilities
- Probe with integrated control - zero footprint
- Adjustable flange mount for probe insertion depth
- Integral, configurable colour display
- 316SS Exd Hazardous ATEX, IECEx and C1D1 Certification

Benefits

- Low cost of ownership with no regular maintenance, no routine calibration and no added chemicals
- Simple to use interface for set-up and control
- Lightweight with easy access to instrument without removing from process.
- Minimal installation requirements (24VDC, Exd)
- Remote Monitoring and Automatic Process Control
- Continuous real-time measurements; <1 sec response to process changes
- 24 month standard warranty

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Technical Specifications

OPERATING CONDITIONS:

Ambient Temperature	-20C to 60C
Process Temperature	-20C to135C (200C on request)
Design Pressure	35barg (higher options available)
Standard Operating Pressure	0 - 10barg (higher options available)
Flow Velocity	0.5 – 10 m/s

MECHANICAL:

Dimensions	Probe length 0.75m to 5.0m
Weight	~ 25kg**
Process Connections	2" ANSI Flange (others sizes available)
Wetted Parts	316L SS Standard (others available)
Non-Wetted Parts	316L SS
Enclosure / Probe	IP66 / IP68

MEASUREMENT:

Light Source	Solid State CW 5mW Laser or Deep UV LED
Measurement Method	Fluorescence Spectrometry
Range	PPB - 10,000 ppm*
Range (Deep UV)	PPB – 50,000ppm*
Accuracy	+/- 1%
Sample Rate	< 1 sec
Repeatability	< +/- 1%

CONTROLLER INTERFACE:

Analogue	4-20mA, HART, Modbus TCP/IP
Ethernet	10 Mbps
Wifi	
Digital	2 x Volt free contacts

ELECTRICAL:

Power Voltage / Current	24VDC / 6A (230/110 VAC 50/60Hz option available)
Power Consumption	DC 20W nominal, 140W peak. AC 15W nominal, 84W peak
Cable Entries	3 entries - M20x1.5mm

COMPLIANCE:

Directives:

- 2014/68/EU Pressure Equipment Directive, module A1
- 2014/34/EU ATEX Directive Exd IIG Class 1 Division 1, Zone 1

Standards:

FM3600	Electric Equipment for use in Hazardous Locations General requirements
FM3615	Explosion Proof Electrical Equipment General Requirements
FM3810	Electrical Equipment For Measurement, Control and Laboratory Use
ANSI/IEC 60529	Degrees of Protection Provided By Enclosures (IP code)
CSA-C22.2 No. 30	Explosion Proof Enclosures For Use In Class 1 Hazardous Locations.
CSA-C22.2 No. 142	Process Control Equipment
CSA-C22.2 No. 60529	Degrees of Protection Provided By Enclosures
IECEx EN 60079-0	Explosive atmospheres Part 0: Equipment General Requirements
IECEx EN 60079-1	Explosive atmospheres Part 1: Equipment protected by flameproof enclosures "d"
IMO107(49)	Marine 15 ppm regulations
DNVGL-CP-0485	Clean Design 5 ppm regulations

* Under controlled conditions and dependent on API of oil

** Length and material dependant

Patent number 2580699 (UK)
Patent number 2600454 (UK)
Patent number 2614934 (UK)

Patent Number 3127511 (CA)
Patent Number 11994461 (US)
Patent number 3914898 (EU)

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