

EXS Controller

Intelligent Control - Oil in Water Side Stream

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 rapid wave ultrasonic self cleaning
- Choice of standard or high-resolution spectrometry feature
- Low power DC voltage requirements
- Multiple Communication options for Management Capabilities
- Small footprint only requiring front access for easy maintenance and installation
- Large user configurable colour display
- Less than 25KG weight
- 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
- Wall, rack or stand mounting options
- Meets hand carry requirements for choppers
- Minimal installation requirements (24VDC, Exd)
- Remote Monitoring and Automatic Process Control
- Continuous real-time measurements; <1 sec response time to process changes
- 24 month standard warranty



Technical Specifications



OPERATING CONDITIONS:

Ambient Temperature	Ambient Temperature -20C to 60C (Optional High Temp Option to 70C)
Process Temperature	-20C to 200C
Design Pressure	100barg (higher options available)
Standard Operating Pressure	0 - 10barg (higher options available)
Flow Velocity	10 m/s nominal

MECHANICAL:

Dimensions	W268mm x H353mm x D177mm
Weight	<25KG
Process Connections	3/4" NPT (others available)
Wetted Parts	316L SS Standard (others available)
Non-Wetted Parts	316L SS
Enclosure	IP66 / IPW 66

MEASUREMENT:

Light Source	Solid State CW 3mW Laser or Deep UV LED
Measurement Method	Fluorescence Spectrometry[2]
Range	PPB - 10,000 PPM[3]
Range (Deep UV)	ppb - 50,000ppm
Accuracy	+/- 1%
Sample Rate	< 1 sec
Repeatability	< +/- 1%

CONTROLLER INTERFACE:

Analogue	2 x 4-20mA, HART (optional)
Ethernet	10/100 Mbps
Wifi	

[1] Second back-up laser included and already installed
[3] Under controlled conditions and dependent on API of oil

ELECTRICAL:

Power Voltage / Current	24VDC / 6A
Power Consumption	20W nominal, 140W peak
Cable Entries	2 entries - M20x1.5mm (1/2" NPT option)

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"

[2] Two options available depending on application and sensitivity