

CROSS SMART SENSOR

FA7-OW: PAH or Oil-in-Water

Digital technology for optimized measures



FEATURES & BENEFITS

- In-situ application
- Direct immersion or bypass flow-cell installations
- Complete measurement within 10 seconds
- No reagents
- Compact size
- High sensitivity and selectivity
- Compensating algorithm for ambient light
- Low power consumption
- Low cost and ownership
- Optional Automatic cleaning wiper

TYPICAL APPLICATIONS

- Produced Water
In Oil & Gas industry, Produced Water quality monitoring is required because oil and grease must be measured on-line before discharge. A reliable and low maintenance UV fluorescence measuring system achieves this goal.
- Condensation or cooling water survey
The concentration of hydrocarbons in condensation or cooling water is a critical parameter for refineries and chemical plants
- Wastewater monitoring
The effluents of refineries and chemical plants must stay below limits to meet the environmental regulations.

FA-7 is a new generation of immersion sensors for measurement of oil or hydrocarbons in water based on the UV fluorescence principle. When excited by a light beam at a specific wavelength, some compounds re-emit light at a longer wavelength. Since there are very limited number of chemicals such as PAH that have fluorescence signatures, this method gives a highly selective measurement with much higher sensitivity than the conventionally used infrared-based technology. This makes it possible to determine even the slightest traces of PAH's. The FA7 sensor connects to a GDC enabling both stationary use (shafts, flows or piping) and mobile use. An optional clamp-on wiper for automatic cleaning of the optical window minimizes maintenance downtime.

SPECIFICATIONS

Measuring System	Light Source: Xenon flash lamp + filter(254nm) Detector: Photo diode + filter (360nm)
Principle	Fluorescence
Measuring Range	0 to 50 ppb, 500 ppb, 0 to 5 ppm, 50 ppm, 150 ppm 0 to 500 ppm
Accuracy	±3% Rd. or ±1% F.S.
Respond Time	T90 < 10s
Measuring Interval	5 s
Operate Pressure	3 bar, 1 bar in Flow cell 2 to 4 L/min
Operate Temp.	32 to 104 °F (0 to 40 °C)
Power*	24 VDC, Max. 30W
Interface	RS485 Modbus RTU
Output	4 to 20 mA
Auto Cleaning	Optional Clamp-on Wiper
Housing	Material: 316L, titanium is Optional; >IP68 Submersible
Dimension	Dia. 2.68" (68 mm), Length 10.28" (261 mm)
Weight	7.7 lbs (3.5 kg) with 30" Cable

ORDER CODE

FA7-OW	PAH or Oil-in-Water Sensor	
	Measuring Range	
	-1 0 to 500ppb	
	-2 0 to 150 ppm	
	-3 0 to 500 ppm	Other range contact factory
	-C10 10" Cable	
	-C20 20" Cable	
	-C30 30" Cable	More length please contact manufactory
FA7-OW	-1	-C30

Specifications subject to change without notice.



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