



FP360sc Oil-in-Water Continuous Online Monitoring Sensor

Continuous oil-in-water monitoring for the right price.

The FP 360 sc is the only online oil-in-water instrument that delivers the highest sensitivity and selectivity with the lowest total cost of ownership.

The Right Technology for the Right Price

Due to its unique combination of submersible probe design and UV fluorescence sensing technology, the FP360sc delivers the best technology to detect oil in water and is priced below competitive UV fluorescent instruments.

Minimal Maintenance

The FP360sc has no tubes, pumps, or valves that can foul or require constant maintenance interventions. Maintenance is limited to occasional wiping of the sensor's measurement window, calibration once every two years, and Xenon lamp replacement every four years.

Reduced Laboratory Testing

While laboratory testing is the ultimate method of measuring oil in water, it is a long and complex process that requires

special equipment and trained lab personnel. The FP360sc provides a cost-effective, continuous online monitoring solution to maintain process control and avoid oil contamination with minimal laboratory testing.

High Sensitivity and Selectivity

The FP360sc can detect and measure polycyclic aromatic hydrocarbons (PAHs) from 1.2 ppb to up to 5000 ppb (µg/L). This is approximately equivalent to a concentration of mineral oil between 0.1 to 150 ppm (mg/L). Furthermore, the FP360sc method of detection makes it impervious to interferences by turbid water or natural organic and biological matter that impact online light scattering, UV absorbance, and VIS fluorescence instruments.

Learn More



Technical Data*

Measurement Method	UV fluorescence method for polycyclic aromatic hydrocarbons (PAH)
Light Source	Miniature xenon flashlamp with interference filter
Detector	UV photodiode with interference filter; Compensation of daylight and flashlamp intensity fluctuations
Excitation	Wavelength 254 nm
Wavelength	Measurement: 360 nm
Range	<i>Low Range:</i> 0 - 50 ppb (µg/L) and 0 - 500 ppb (µg/L) PAH** 0.1 - 1.5 ppm (mg/L) and 0.1 - 15 ppm (mg/L) oil** <i>High Range:</i> 0 - 500 ppb (µg/L) and 0 - 5,000 ppb (µg/L) PAH** 0.1 - 15 ppm (mg/L) and 0.1 - 150 ppm (mg/L) oil**
Resolution	0.1 ppb (µg/L) PAH in the lowest measuring range
Reproducibility	2.5% of measured value at constant temperature (PAH)
Response Time T90	10 s
Calibration	Factory calibrated with UV fluorescence standard or process calibration with results of a grab sample analysis.
pH Value(s)	≥ 4
Sample Temperature	1 - 40 °C (33.8 - 104 °F)
Pressure Range	Max. 30 bar (measurement probe)
Material	Housing: stainless steel 316Ti (1.4571) or titanium
Dimensions	68 x 306 mm (D x L; without connector and suspension pin)
Weight	Stainless steel: 2.8 kg (6.17 lb) Titanium: 1.8 kg (3.97 lb)

*Subject to change without notice.

**With calibration standard.

Order Information

Sensors

LXV441.99.11102	FP360sc Oil-in-Water Sensor, 500 ppb, Stainless Steel Body, 10 m (32.8 ft) Cable, without Cleaning Unit
LXV441.99.11202	FP360sc Oil-in-Water Sensor, 500 ppb, Stainless Steel Body, 10 m (32.8 ft) Cable, with Cleaning Unit
LXV441.99.11302	FP360sc Oil-in-Water Sensor, 500 ppb, Stainless Steel Body, 1.5 m (5 ft) cable, without Cleaning Unit
LXV441.99.12102	FP360sc Oil-in-Water Sensor, 500 ppb, Titanium Body, 10 m (32.8 ft) Cable, without Cleaning Unit
LXV441.99.12202	FP360sc Oil-in-Water Sensor, 500 ppb, Titanium Body, 10 m (32.8 ft) Cable, with Cleaning Unit
LXV441.99.12302	FP360sc Oil-in-Water Sensor, 500 ppb, Titanium Body, 1.5 m (5 ft) Cable, without Cleaning Unit
LXV441.99.21102	FP360sc Oil-in-Water Sensor, 5,000 ppb, Stainless Steel Body, 10 m (32.8 ft) Cable, without Cleaning Unit
LXV441.99.21202	FP360sc Oil-in-Water Sensor, 5,000 ppb, Stainless Steel Body, 10 m (32.8 ft) Cable, with Cleaning Unit
LXV441.99.21302	FP360sc Oil-in-Water Sensor, 5,000 ppb, Stainless Steel Body, 1.5 m (5 ft) Cable, without Cleaning Unit
LXV441.99.22102	FP360sc Oil-in-Water Sensor, 5,000 ppb, Titanium Body, 10 m (32.8 ft) Cable, without Cleaning Unit
LXV441.99.22202	FP360sc Oil-in-Water Sensor, 5,000 ppb, Titanium Body, 10 m (32.8 ft) Cable, with Cleaning Unit
LXV441.99.22302	FP360sc Oil-in-Water Sensor, 5,000 ppb, Titanium Body, 1.5 m (5 ft) Cable, without Cleaning Unit

A digital Hach SC controller is required to operate the FP360sc sensor, controller is sold separately.

Accessories

LZX914.99.11110	Stainless steel chain mounting set for FP360sc
LZY669	Flow cell with mounting panel for FP360sc
LZY623	Extension cable FP360sc, 1.5 m (5 ft)
LZY624	Extension cable FP360sc, 10 m (32.8 ft)

Part numbers may vary by country.