

OilGuard Ex M

USP & Product features » customer benefits

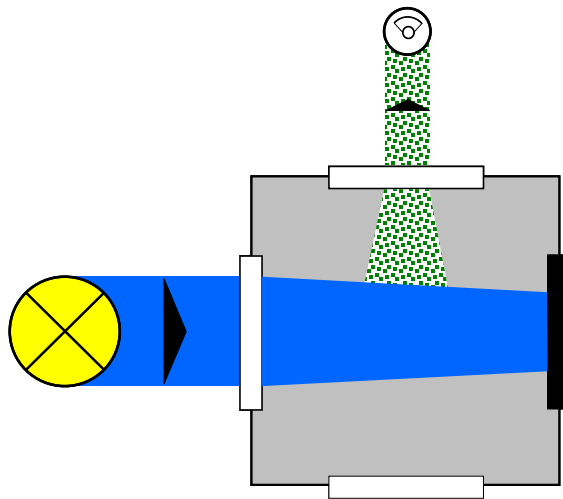


More than 45 years experience





Fluorescence measuring



- » No solvents required
- » Measures dissolved and dispersed oil
- » Immediate response to changing process conditions (response time < 1 sec.)
- » Low impact of solids and salt on the measurement
- » Correlated to the IMO standard MEPC.107(49)

OilGuard Ex M



DEPT. OF HOMELAND SECURITY, USCG, CGHQ-10039
(REV. 3-03)

OilGuard Ex M for maritime applications according IMO Standard

- » Calibration according IMO
 - › Directive MEPC.107(49)

IMO = International Maritime Organization

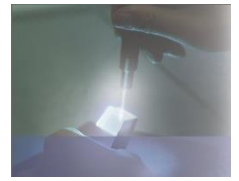
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Ex Protection

- » Ex protection class Ex IIG px II T4; certified by:
 - › ATEX
- » Ex protection system Ex p (purge air)
 - › Elevated security, instrument switches off automatically, if the housing becomes leaky
 - › Housing can be opened by key, no time consuming screws to unbolt
 - › Very economical, no purge air consumption after initial purging
- » Housing ① separated from the measuring cell ②
 - › The instrument can remain switched on during maintenance
 - › Shortens the maintenance time



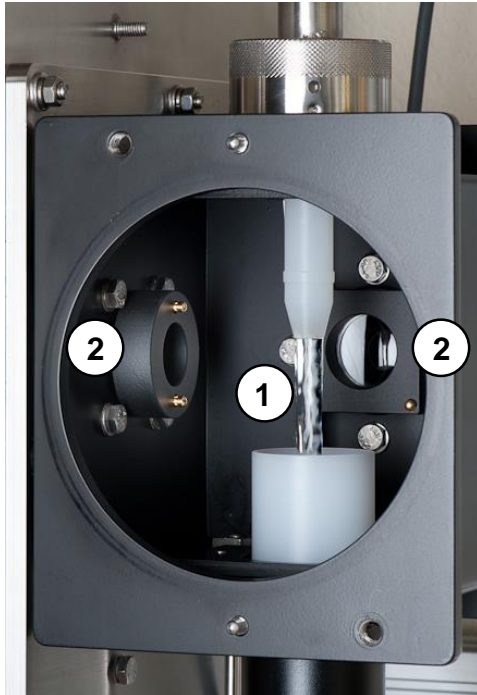


Free fall measuring cell PVDF

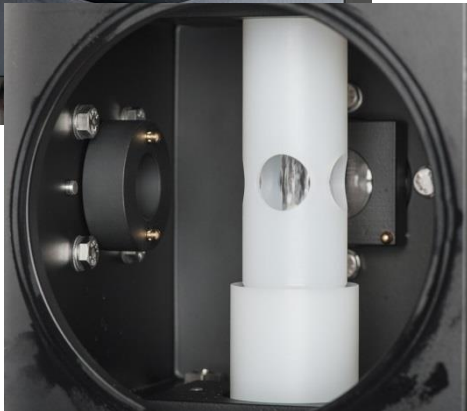
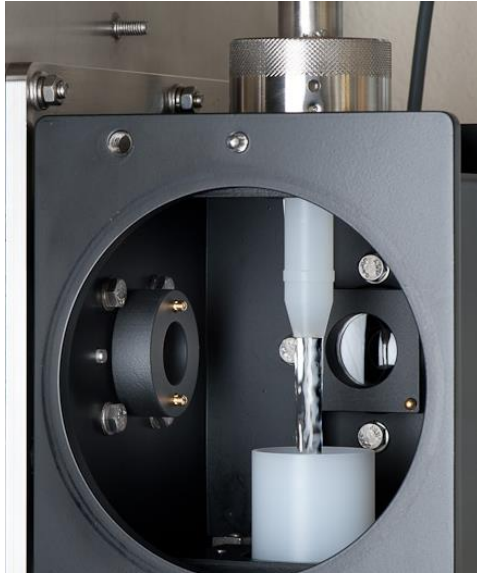
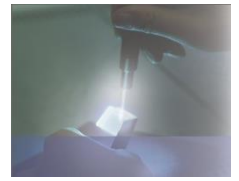
True contact less measuring principle:

- » ① Free fall sample stream passes through the instrument without touching the optics:
 - › No contamination of the optics
 - › the measured values are not falsified and there is no drift
 - › Existing dissolved metals e.g. barium sulfide do not contaminate nor blind the optics
 - › Vastly extended maintenance interval
 - › Purge air for high sample temperatures -> requires 6l/min air
 - › No ultrasonic cleaning needed

- » ② Protection glasses in front of the measuring optics:
 - › Protection of the measuring optics against contamination
 - › Simplified cleaning without any tooling



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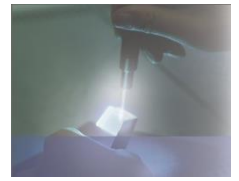


Free fall measuring cell PVDF

True contact less measuring principle:

- » Protection tube over the free falling sample
 - › protect the lenses against spray

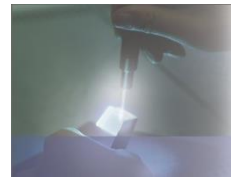
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Free fall measuring cell PVDF

- » Inlet tube out of PVDF (3):
 - › No scaling / no contamination





Mounting racks

- › Simplify the mounting of the instrument

» Wall mounting rack

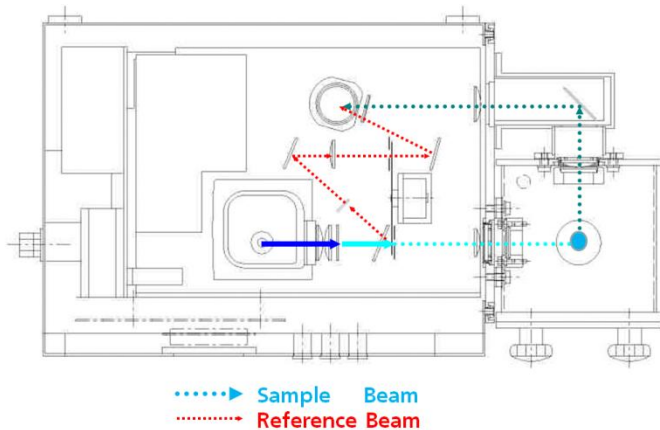
- › Reduces the installation time



» Standalone rack

- › Reduces the installation time

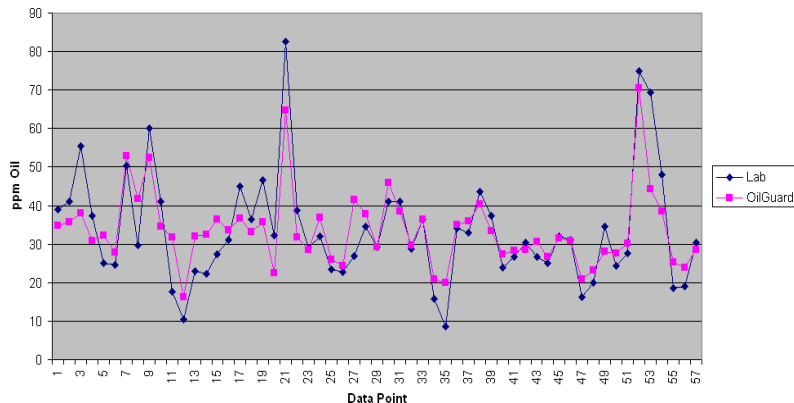
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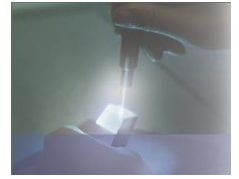


Reliable measurement

- » The instrument uses a sophisticated dual-beam optical set up with optimized wavelength configuration:
 - › Warrants highest precision and stability of the measurement
- » Fluctuations and light source aging are automatically compensated:
 - › Extends the lifetime of the light source
 - › Enhances the die availability of the instrument
- » Zero drift less < 1% per year causes:
 - › Seldom recalibration
 - › Less maintenance

OilGuard vs. Lab Results, correlated





Integrated controller and data logger

A functional design - intuitive operation:

- » A password protects against unauthorized access
- » Comprehensive communication options



- » An external data logger records all events, if the limit of 15 ppm is exceeded or undershot