PAH sensor
Memosens CFS51

Memosens sensor for measuring the concentration of polycyclic aromatic hydrocarbons in discharge water of marine exhaust gas cleaning systems (EGCS) and for reliable online monitoring of oil-in-water to ensure environmentally compliant discharge



More information and current pricing:
www.endress.com/CFS51

Benefits:

- The uniquely long factory maintenance interval saves you a lot of costs and organizational effort
- The optionally available flow assembly holds the sensor at the ideal installation angle to minimize disturbing influences caused by air bubbles. In addition, it can be tilted for quick mounting and dismounting of the sensor.
- DNV approved integrated turbidity correction in the range of 0-50 FNU
- High material compliance of sensor and flow assembly according to IACS E10 (flame retardancy)
- The solid-state reference makes calibration very easy for the end user - and you can completely eliminate the need for toxic phenantrene, which increases safety for your employees and the environment
- The suitability of the solid-state reference for calibration and readjustment of the PAH sensor on board was confirmed by DNV
- Early warning to limit contamination and initiate appropriate measures, as well as real-time monitoring to ensure reliable documentation and compliance with legal regulations

Specs at a glance

- **Measuring range** 0 to 5000 PAHphe 0 to 6000 ppm depending on oil sample
- **Process temperature** -5 to 55 °C (20 to 130 °F)

- **Process pressure** 10 bar abs. (just the sensor) 6 bar abs. (combination sensor and assembly)

Field of application: The rugged, low-maintenance Memosens CFS51 fluorescence sensor measures polycyclic aromatic hydrocarbons (PAHs) in compliance with MEPC.259(68) and MEPC.340(77). Its solid-state reference enables onboard calibration. As oils and hydrocarbons are critical in many processes continuous real-time measurement ensures stable plant operation, reliable oil-in-water values, early deviation detection, and supports safe, environmentally friendly water discharge in industrial and environmental applications.

Features and specifications

Concentration

Measuring principle
Fluorescence measurement

Application
PAH measurement in marine exhaust gas cleaning systems
Monitoring of oils and hydrocarbons in industrial and environmental applications

Measuring range
0 to 5000 PAHphe
0 to 6000 ppm
depending on oil sample

Design
40 mm sensor

Material
Titanium grade 3.7035
Optical windows: sapphire
O-rings: FKM

Process temperature
-5 to 55 °C (20 to 130 °F)

Concentration

Process pressure

10 bar abs. (just the sensor)
6 bar abs. (combination sensor and assembly)

Ingress protection

IP68
NEMA 6P

Certificates, declarations and approvals

Marine type approvals by DNV, LR, BV, ABS and CCS
Statement of compliance according to MEPC.259(68) and MEPC.340(77) by DNV

More information **www.endress.com/CFS51**

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