

microFlu V2 HC

37S80XX13



microFlu V2 HC is a new immersion probe for measuring oil in water. The measuring principle of UV fluorescence used is many times more sensitive and specific than the conventionally used infrared scattering or absorption methods. This makes it possible to determine even the smallest traces of PAHs, e.g. in drinking water, but also in cooling water condensates. The field of application ranges from petrochemistry, leakage detection in cooling and waste water streams to environmental monitoring. The instruments can be used stationary in manholes or in flow-through, as well as in pipelines. A nano-coating reduces the contamination of the optical measuring windows and thus reduces the required maintenance to a minimum.

microFlu V2 HC is equipped with an RS-485 interface that allows easy and fast sensor configuration via Modbus and also has an analog interface. Integration with existing process control systems and external data loggers has never been easier.

Advantages

- without sampling and sample preparation
- without delay
- without reagents
- high sensitivity and selectivity
- optical windows with nano-coating

Applications

- Surface waters
- Drinking water
- Waste water
- Airports
- Cooling water
- Desalination plants
- Refineries / Gas stations
- Seepage ditch (road run-off water)
- Pipeline monitoring
- Bilge water monitoring

Technical specifications

| | | |
|-------------------------------|--------------|------------------------------|
| Measurement technology | Light source | LED 255 nm |
| | Detector | Photodiode + Filter (360 nm) |
| Measurement principle | | Fluorescence |
| Parameters | | PAH, Oil |

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|---|---------------------------------|---------------------------|---------------------------|
| Measurement range | | PAH: 0...5000 ppb | |
| | | Oil: 0...150 ppm typ. | |
| Detection limits | | PAH: 5 ppb | |
| | | Oil: 0.15 ppm typ. | |
| Measurement accuracy | | ±10 % FS | |
| Turbidity compensation | | No | |
| Data logger | | No | |
| Reaction time T90 | | 6 s | |
| Smallest measuring interval | | 3 s | |
| Interface | digital | RS-485, Modbus RTU | |
| | analog | 4...20 mA (default) | |
| | | 0 – 5 V | |
| | | 0 – 10 V | |
| Power consumption | typical | max. 0.6 W | |
| | with activated analog interface | max. 1.1 W | |
| | Power-Down | max. 70 mW | |
| Power supply | | 12 – 24 VDC (± 10 %) | |
| Required supervision | | ≤ 0.5 h/month typical | |
| Calibration/maintenance interval | | 24 months | |
| Warranty | | 1 year (EU & USA 2 years) | |
| Housing material | | 1 year (EU & USA 2 years) | |
| Dimensions (L x Ø) | | ca. 162 mm x 48 mm | ~ 6.4" x 1.9" |
| Weight | VA | ~ 650 g | ~ 1.4 lbs |
| | TI | ~ 510 g | ~ 1.1 lbs |
| Max. pressure | with Subconn | 30 bar | ~ 435 psig |
| | with fixed cable | 3 bar | ~ 43.5 psig |
| | in flow cell | 1 bar, 2...4 L/min | ~ 14.5 psig, 0.5 to 1 gpm |
| Protection type | | IP68 | NEMA 6P |
| Sample temperature | | + 2 .. + 40 °C | ~ +36 °F to +104 °F |
| Ambient temperature | | + 2 .. + 40 °C | ~ +36 °F to +104 °F |
| Storage temperature | | - 20 .. + 80 °C | ~ -4 °F to +176 °F |
| Inflow velocity | | 0,1...10 m/s | ~ 0.33 fps to 33 fps |