

Monitor AMI-II Fluotrace Oil

Data sheet no. DenA25561X00

Complete monitoring system for the automatic and continuous measurement of trace amounts of polycyclic aromatic hydrocarbons (PAHs).

Application examples

- For the detection of trace contaminants from PAHs and mineral oil in raw, sea, and pure water.

Measuring range

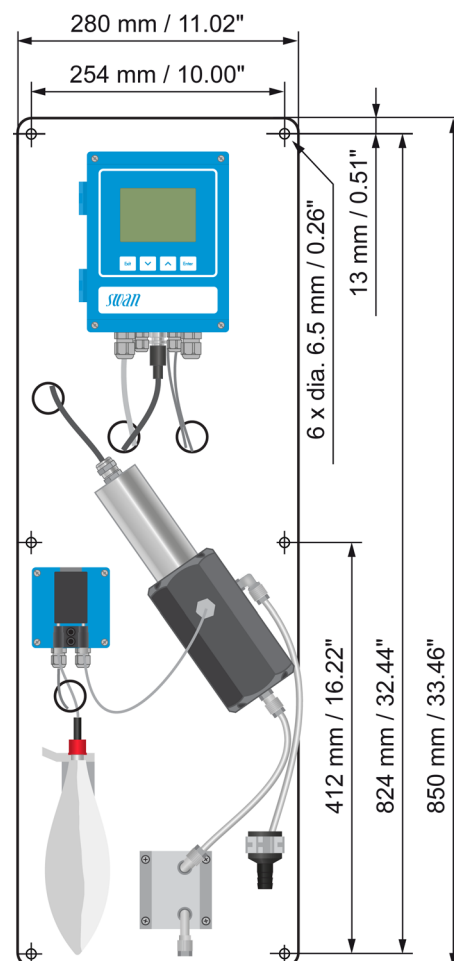
- 0.00 ppb – 5000 ppb PAH.
- 0.00 ppm – 150.0 ppm (depending on type of oil)

Instrument features

- Selective UV-fluorescence measurement of PAHs
- Fast sensor response time: 10 s
- Nano-coating reduces soiling of the optical window
- Titanium sensor housing (3.7035)

Optional

- Ultrasonic sample flow meter or flow regulator with flow measurement.
- Automatic chemical cleaning with 1 solution (Cleaning Module-III P, mounted directly on AMI-II Fluotrace Oil) or 2 solutions (Cleaning Module-III, separate panel).
- Verification kit with high-precision secondary standard for regular sensor performance check.



Monitor AMI-II Fluotrace with Swansensor U-Flow and Cleaning Module-III P.

Order numbers:	Monitor AMI-II Fluotrace Oil	A-25.561._00
Power supply	100 – 240 VAC, 50/60 Hz..... 10 – 36 VDC.....	1 2
Option 1	RS485 interface with Modbus RTU or Profibus protocol HART interface Two additional 0/4 – 20 mA signal outputs	A-81.470.0X0 A-81.470.030 A-81.470.040
Option 2	Swansensor U-Flow Flow regulator with measurement.....	A-87.934.001 A-82.521.201
Option 3	Cleaning Module-III P	A-82.311.010
Accessories	For all accessories and details, please visit our website at www.swan.ch .	



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Fluorometric Measurement

Sensor type

UV fluorescence-based sensor:
excitation 255 nm, detection 360 nm.

Measuring range

Resolution

PAH	
0.00 – 9.99 ppb	0.01 ppb
10.0 – 999.9 ppb	0.1 ppb
1000 – 5000 ppb	1 ppb
Oil	
0.00 – 9.99 ppm	0.01 ppm
10.0 – 150.0 ppm	0.1 ppm

Accuracy: $\pm (5 \mu\text{g/l} + 10 \% \text{ of reading})$

Cross sensitivities: dissolved organics,
turbidity

Factory calibrated.

Response time (sensor)

10 s

Auxiliary sensors

- Sample flow measurement with optional Swansensor U-Flow or flow regulator.

Transmitter Specifications and Functionality

Electronics case: Cast aluminum
Protection degree: IP66 / NEMA 4X
Display: backlit LCD, 74 x 53 mm
Electrical connectors: screw clamps
Ambient temperature: -10 to +50 °C
Humidity: 10 – 90% rel., non-condensing

Power supply

AC version: 100 – 240 VAC ($\pm 10 \%$),
50/60 Hz ($\pm 5 \%$)
DC version: 10 – 36 VDC
Power consumption: max. 35 VA

Operation

User menus in English, German, French and Spanish.
Separate, menu-specific password protection.

Safety features

No data loss after power failure, all data is saved in non-volatile memory.
Overvoltage protection of inputs and outputs.
Galvanic separation of measuring inputs from signal outputs.

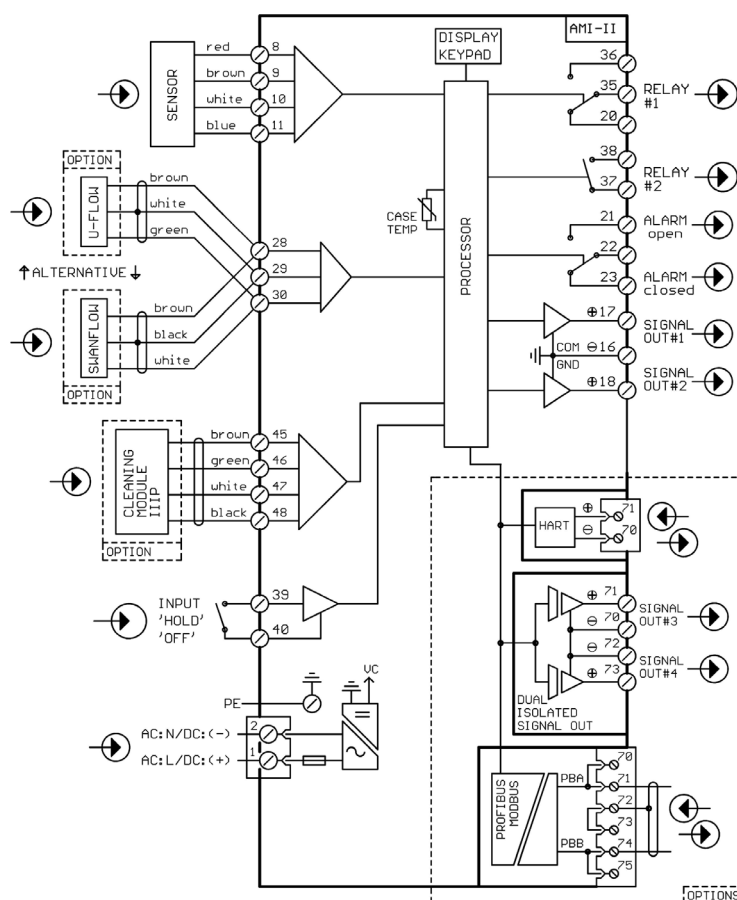
Alarm relay

One potential-free contact for summary alarm indication for programmable alarm values and instrument faults.
Maximum load: 1 A / 250 VAC

Input

One input for potential-free contact.
Programmable hold or remote off function.

Electrical Connection Scheme



Relay outputs

Two potential-free contacts programmable as limit switches for measured values, controllers or timers with automatic hold function.

Rated load: 1 A / 250 VAC

Signal outputs

Two or four (with optional communication interface) programmable signal outputs for measured values (freely scalable, linear or bilinear) or as controller outputs.

Current loop: 0/4 – 20 mA
Maximum burden: 510 Ω
Type: current source

SD card interface

Possibility to record measured values and diagnostic data to an SD card.
SD card included.

Communication interface options

- Two additional signal outputs, galvanically separated
- RS485 interface with Modbus RTU or Profibus DP protocol, galvanically separated
- HART interface

Monitor Data

Sample conditions

Flow rate: approx. 5 to 50 l/h
Temperature: up to 40 °C
Inlet pressure: up to 1 bar
Outlet pressure: pressure free

Sample connections

Inlet: 6 mm Serto fitting
Drain: $\varnothing$ 16 mm, tubing 15 x 20 mm

Panel

Dimensions: 280 x 850 x 200 mm
Material: white PVC
Total weight: 7.7 kg

