



OiW-100 Oil-in-Water Analyzer

Continuous monitoring of total petroleum in effluent water.

- » UV-Vis full-spectrum spectrophotometer
- » Solid state with no moving parts
- » Correlates absorbance of aromatic hydrocarbons precisely to total oil concentration
- » Fiber optic cables transmit signal to/from sample
- » Xenon light source with 5 years average lifespan
- » No consumables or reagents
- » Water background is completely transparent in the UV spectrum



Measurement:

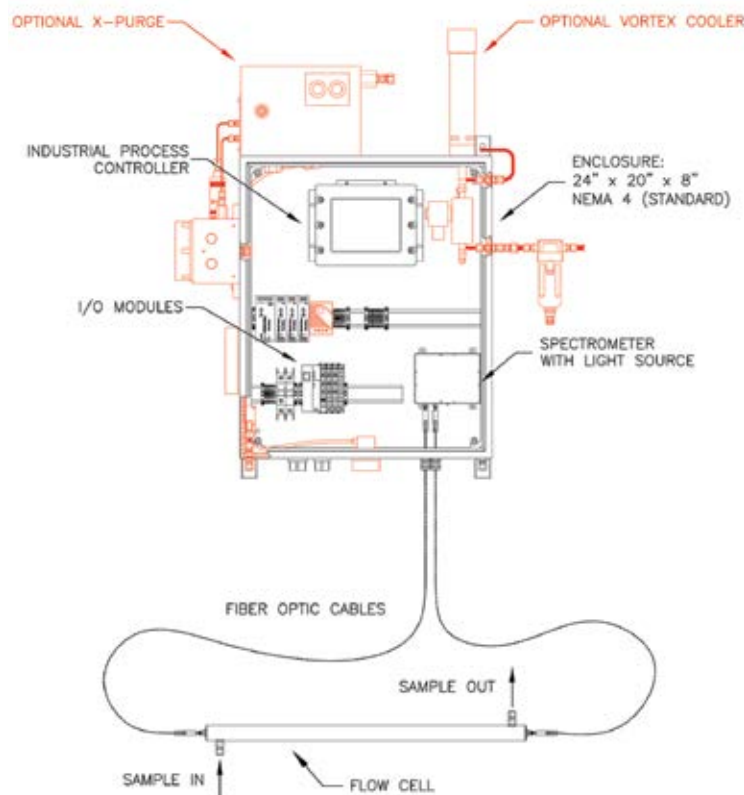


OiW-100 Analyzer Specifications

Note: All performance specifications herein are subject to the assumption that all design for integration and sample conditioning is first approved by Applied Analytics.

Detector	nova-II™ UV-Vis diode array spectrophotometer
Methodology	Correlation of total aromatics' absorbance
Light Source	Pulsed Xe lamp (average 5 year lifespan)
Fiber Optic Cables	Standard: 1.8 meter 600 µm core fibers (qty=2) <i>Longer lengths available.</i>
Sample Phase	Homogenous mixture
Sample Cell	Standard: SS316 flow cell (length from 2 mm to 600 mm) <i>Other materials available.</i>
Sample Conditioning	Custom design if needed
Accuracy	0-20 mg/L range: ±2% full scale 0-100 mg/L range: ±2% full scale
Analyzer Calibration	Calibrated on sample of process water from site
Verification	Simple verification with samples and self-check diagnostic
Ambient Temperature	Standard: 0 to 35 °C (32 to 95 °F) Optional: -20 to 55 °C (-4 to 131 °F) To avoid radiational heating, use of a sunshade is recommended for systems installed in direct sunlight.
Sample Temperature	Standard: -20 to 70 °C (-4 to 158 °F) Optional: up to 150 °C (302 °F) with cooling extensions Contact AAI for temperatures above 150 °C (302°F)
Sample Pressure (max.)	Using standard flow cell: 206 bar (3000 psi) Using immersion probe: 100 bar (1470 psig)
Electrical	85 to 264 VAC 47 to 63 Hz
Power Consumption	45 Watts
User Interface	Industrial controller with touch-screen LCD display
Standard Outputs	1 galvanically isolated 4-20mA output per measurement 2 digital outputs for fault and SCS control
Optional Outputs	Modbus TCP/IP; RS-232; Fieldbus; Profibus; HART; more
Wetted Materials	<i>Various custom materials available.</i> Standard: K7 glass, Viton, stainless steel 316L
Environment	Indoor/Outdoor — no shelter required.
Certifications	Standard: General Purpose Available Options: ATEX, IECEx, EAC <i>Please inquire with your sales representative for additional certifications (CSA, FM etc.).</i>

OiW-100 Analyzer
(common options shown in red color)



Weight	Analyzer: 32 lbs. (15 kg)
Size	Analyzer: 24" H x 20" W x 8" D (610 x 508 x 203 mm)
Enclosure	<i>Various enclosures available.</i> Standard: wall-mounted carbon steel NEMA 4 enclosure

MADE IN THE USA

LAST REVISION: MAY 2017



A registered trademark of Applied Analytics, Inc.

Headquarters

Applied Analytics, Inc.
Burlington, MA, USA | sales@aai.solutions

North America Sales

Applied Analytics North America, Ltd.
Houston, TX, USA | sales@appliedanalytics.us

Europe Sales

Applied Analytics Europe, AG
Genève, Switzerland | sales@appliedanalytics.eu

Asia Pacific Sales

Applied Analytics Asia Pte. Ltd.
Singapore | sales@appliedanalytics.com.sg

Middle East Sales

Applied Analytics Oil & Gas Operations, L.L.C.
Abu Dhabi, UAE | sales@appliedanalytics.ae

Brazil Sales

Applied Analytics do Brasil
Rio de Janeiro, Brazil | vendas@aadbl.com.br

India Sales

Applied Analytics (India) Pte. Ltd.
Mumbai, India | sales@appliedanalytics.in

www.aai.solutions