



Process Analyzer
UV Oil in Water Analyzer Model W-800

Credible Solutions for the Oil and Gas Industry

UV Oil in Water Analyzer Model W-800

Process Analyzer

To remain competitive, today's refiners must employ all optimization and product control techniques available. The use of online physical property analyzers is one of the key features to reach those objectives because they measure important quality properties in the process directly.

Oil in water is measured by measuring the strength of the fluorescence caused by UV excitation.



Your partner
for innovative
system solutions.



The BARTEC
specialists have
many years of expe-
rience. They create
system solutions
that you can rely
on: efficient and
dependable for
decades to come.

Operating range 0–100 ppm (mg/L)

Excellent repeatability 2% of full scale

Rapid analysis cycle of 15 seconds or less

Full color display with continuous running chart

Separate enclosures for electronics and analytics

Minimal conditioning necessary

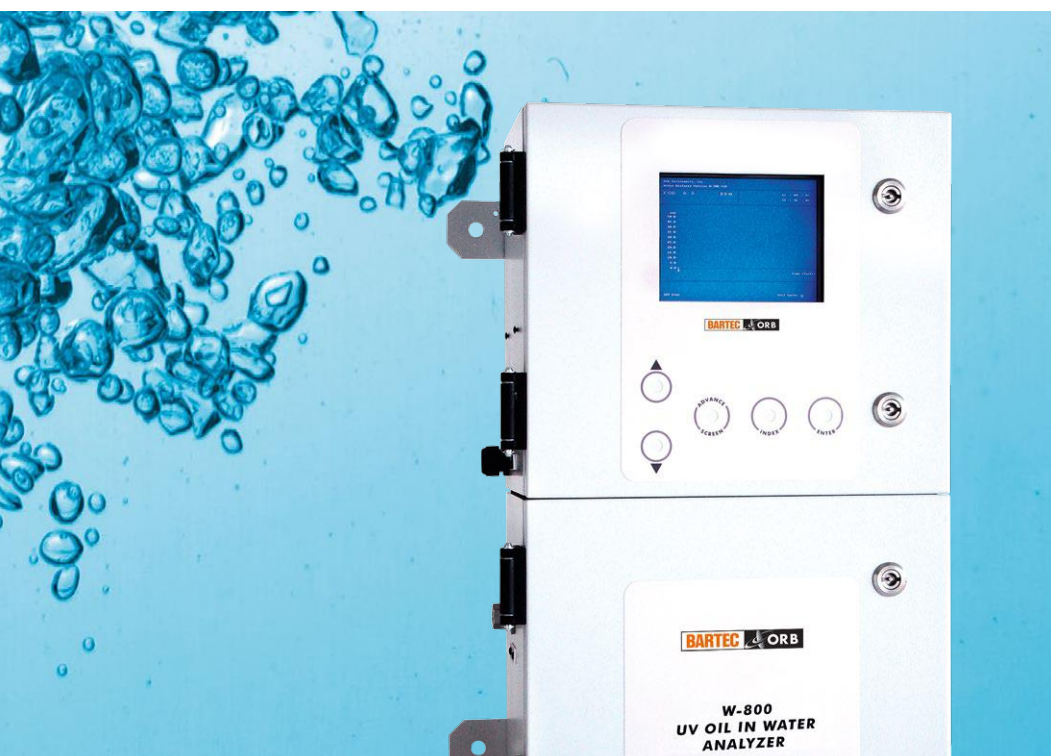
No supporting reagents/chemicals needed

Clean option

APPLICATION

With growing public awareness and concern for controlling water pollution and enactment of the Clean Water Act in 1972 (amended in 1977) it has become increasingly important to continuously monitor the quantity of effluents in waste water prior to discharge. Finding a method of accurately obtaining results in a cost effective manner has plagued industrial companies for years due to the nature of the chemistry involved.

The development of photometric and spectroscopic techniques has proved an invaluable tool in the application of on-line effluents monitoring. The removal of hazardous solutions and high temperature applications coupled with fast response and high accuracy has brought the use of photometric correlation techniques to the forefront of waste and process water monitoring.

**Special Features:**

- **Rapid Cycle Times**
- **Low cost**
- **Modbus option**

Norms and Standards:

- **None Applicable**

Make your decision for a strong partner!

Choose **BARTEC GROUP** also for:

- **Fast Loop Systems**
- **Sample Conditioning Systems**
- **Validation Systems**
- **Recovery Systems**
- **Chillers**
- **Air Conditioning Systems/HVAC**
- **Pre Commissioned Analyzer Shelters/
Turn-Key Solutions**



EXPLOSION PROTECTION

Ex protection marking none, built to standards
CE₀₅₁₈

TECHNICAL DATA

Technology UV fluorescence
Method Xenon Flash tube
Measuring range 0 to 100 ppm of aromatic hydro-carbons
Repeatability 2 % of full scale
Measuring cycle 15 seconds updates
Product streams treated water or heat exchanger water
Measuring temperature less than 40°C (104°F)

■ Electrical data

Nominal voltage 100 to 120 VAC 1 phase; 50/60 Hz
200 to 240 VAC 1 phase; 50/60 Hz

Maximum power consumption less than 250 W

■ Ambient conditions

Ambient temperature -5 to 40°C (23 to 104°F)
Ambient humidity up to 90 %

Sample

Quality particulate filtered (100 µm)
Consumption 20 to 180 l/h
Pressure at inlet 0.5 to 2 bar (7 to 29 psi)
Temperature at inlet 10 to 90°C (50 to 194°F)

Utilities

■ Instrument air

Consumption
Purge 0.4 l/h
Pressure at inlet 2 to 8 bar (29 to 116 psi)
Quality instrument air

Signal outputs and inputs

Analog outputs 0IW (PPM)
Digital outputs Analyzer fault
Digital inputs stream switch, remote standby, customer alarm

Electrical data of signal outputs and inputs

Analog outputs 1 standard 4-20 mA self powered and isolated

Analog inputs None required
Digital outputs up to 2 dry contact programmable, 250 Volt, 3 A

Digital inputs up to 4 dry contact

User interfaces

Display 7" color graphics
Keyboard 5 button magnetic, no hot work permit required

Connections

Pipe fittings 1/4" FNPT or 1/2"
Vent/Drain 1/4" FNPT

Weight and dimensions

Weight approx. 27 kg (60 lbs)
Dimensions (W x H x D) approx. 406 x 635 x 254 mm
(16" x 25" x 10" in)

Optional interfaces

Analog outputs None required
MODBUS TCP IP / Serial RTU

Important notice W-800 is subject to continuous product improvement, specifications are preliminary and may be subject to change without notice. If your technical data do not comply with existing data, please contact us for technical clarification.



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