BARTEC ORB

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 flouresence caused by UV excitation.

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Your partner for innovative system solutions.

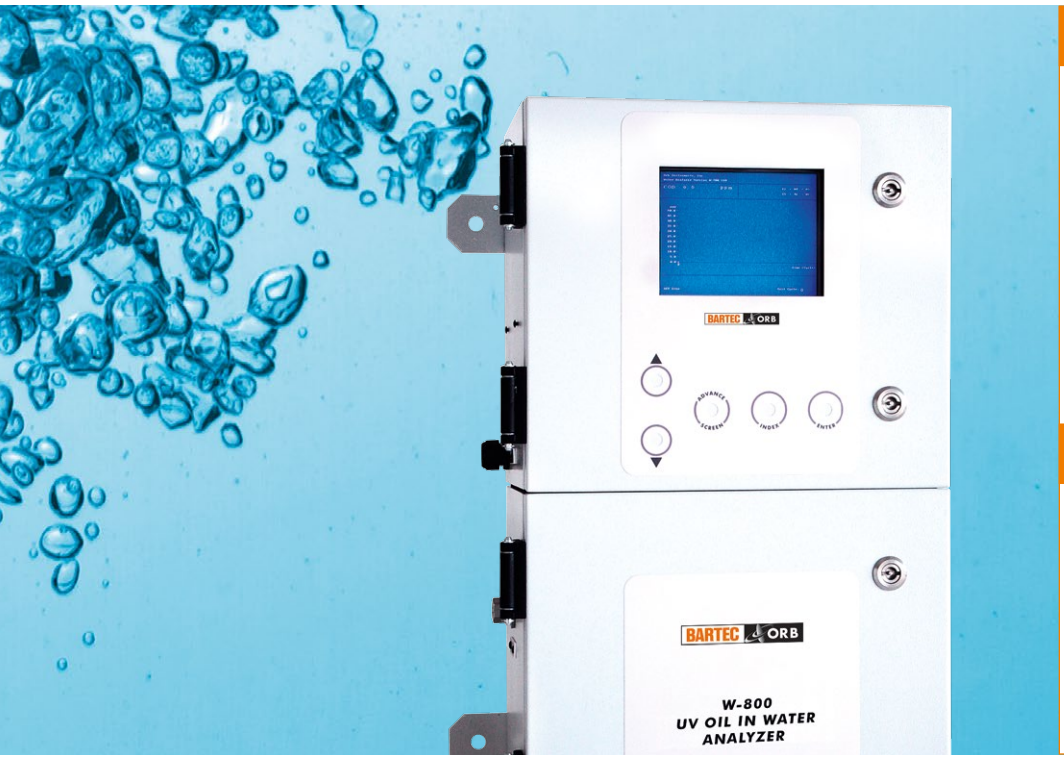
The BARTEC specialists have many years of experience. They create system solutions that you can rely on: efficient and dependable for decades to come.

- **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**

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EXPLOSION PROTECTION

Ex protection marking	none, built to standards CE 0518

TECHNICAL DATA

Technology	UV flouresence
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	OIW (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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