



# Process Analyzer

**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 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**



## EXPLOSION PROTECTION

**Ex protection marking** none, built to standards  
**CE** 0518

## TECHNICAL DATA

**Technology** UV fluorescence  
**Method** Xenon Flash tube  
**Measuring range** 0 to 100 ppm of aromatic hydrocarbons  
**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.

## BARTEC GROUP

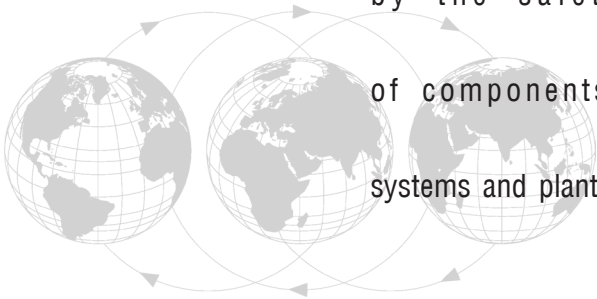
protects people and

the environment

by the safety

of components,

systems and plants.



- **Flash Point Analyzer Model P-500**
- **Salt In Crude Analyzer Model P-600**
- **Reid Vapor Pressure Analyzer Model P-700**
- **Freeze Point Analyzer Model P-800LT, Low Temperature**
- **Cloud Point Analyzer Model P-820LT, Low Temperature**
- **No Flow Point Analyzer Model P-840/P-840LT**
- **Viscosity Analyzer Model P-900**
- **Viscosity Index Analyzer Model P-950**
- **UV Oil In Water Analyzer Model W-800**