# BARTEC ORB





**Processon Point Analyzer Model P–500** 

Credible Solutions for the Oil and Gas Industry

# Flash Point Analyzer Model P-500 SANALYZE

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.

The flash point temperature is defined as the lowest temperature at which application of an ignition source causes the vapor of specimen of the sample to ignite under specified conditions of test.

#### BARTEC ORB

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.



#### **APPLICATION**

The Flash Point of mid-distillate products is one of the properties that must be maintained and controlled in order to produce and sell products to the market. The ORB P-500 is a state-of-the-art analyzer that implements the newest of electronics and detection principles for a low cost means of monitoring the Flash Point of a product during the refining process.

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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

ATEX: Ex d IIB+H2 T6 Gb CSA/CUS Class I Div 1 Group B, C + D C  $\in O_{0518}$ 

## **TECHNICAL DATA**

#### Technology

Method

Measuring range Repeatability Reproducibility Measuring cycle Electrical data Nominal voltage

Maximum power consumption Protection class Ambient conditions Ambient temperature Ambient humidity

#### Sample

Quality

Consumption Pressure at inlet Temperature at inlet

#### Utilities

 Instrument air
Consumption Purge Operation
Pressure at inlet
Quality

Coolant

measurement / small stainless steel flash chamber, spark ignition correlates with: ASTM D56, ASTM D93 25 to 125°C (77 to 257°F) ± 1°C or better ≤ ASTM measuring cycle typical 5 min or better

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

less than 500 W IP 65

operation 5 up to 40°C (41 to 104°F) less than 90 %

filtered 10 μm, without water or moisture 0.9 to 6 l/h 1.4 to 10 bar (20 to 150 psi) min. 10 K below expected FP temperature < 85°C

60 l/h at 10 seconds per cycle

2.7 to 6.8 bar (40 to 100 psi)

48 to 60 l/h continuous

clean dry, instrument air

None required

#### Signal outputs and inputs

| Analog outputs  | Flash Point, sample temperature                                      |
|-----------------|--|
| Digital outputs | sample FP alarm, analyzer maintenance warning, analyzer fault alarm  |
| Digital inputs  | customer alarm, remote standby, stream<br>switch, validation request |

## Electrical data of signal outputs and inputs

Analog outputsup to 2 to 4-20 mA self powered and<br/>isolated, 1 is standardAnalog inputsoptionalDigital outputsup to 3 dry contacts programmable,<br/>alarm critical, come read, alarm warningDigital inputsup to 4 dry contact inputs

## **User interfaces**

Display Keyboard

#### **Connections**

Sample inlet Sample outlet Vent/Drain

#### Weight and dimensions

Weight Dimensions (W x H x D)

#### **Optional interfaces**

Analog outputs MODBUS interface 7" color graphics

5 button magnetic, no hot work permit required

1/4" FNPT 1/4" FNPT 1/4" FNPT

#### approx. 228 kg (500 lbs) approx. 940 x 1803 x 762 mm (37" x 71" x 30" in)

optional, cell temperature TCP/IP or Serial/RTU MODBUS output available

**Important notice** P-500 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 ORB** 

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