







Credible Solutions for the Oil and Gas Industry

Flash Point Analyzer Model P-500 Analyzer

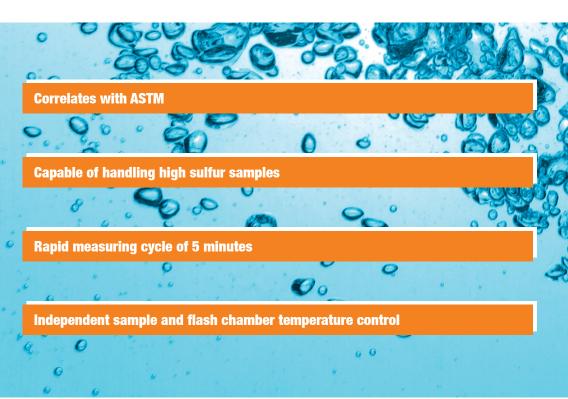
To remain competitive, today's refiners must employ all optimization and product control techniques available. The use of online physical property analyzers is one of the key features to reach those objectives because they measure important quality properties in the process directly.

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.

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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.



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 **CE** 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 48 to 60 l/h continuous 2.7 to 6.8 bar (40 to 100 psi) clean dry, instrument air None required

Signal outputs and inputs

Analog outputs Digital outputs	Flash Point, sample temperature sample FP alarm, analyzer maintenance warning, analyzer fault alarm
Digital inputs	customer alarm, remote standby, stream switch, validation request
Electrical data of signal	

optional

up to 2 to 4-20 mA self powered and

up to 3 dry contacts programmable,

alarm critical, come read, alarm warning

isolated, 1 is standard

up to 4 dry contact inputs

no hot work permit required

approx. 228 kg (500 lbs)

approx. 940 x 1803 x 762 mm

(37" x 71" x 30" in)

7" color graphics

5 button magnetic,

1/4" FNPT

1/4" FNPT

1/4" FNPT

outputs and inputs

Analog outputs

Analog inputs Digital outputs

Digital inputs

User interfaces

Display Keyboard

Connections

Sample inlet Sample outlet Vent/Drain

Weight and dimensions

Weiaht **Dimensions** (W x H x D)

Optional interfaces

Analog outputs MODBUS interface

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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- 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

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