







Credible Solutions for the Oil and Gas Industry

Viscosity Index Analyzer Model P-950 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 viscosity index is a widely used and accepted measure of the variation in kinematic viscosity due to changes in the temperature of a petroleum product between 40°C and 100°C. A higher viscosity index indicates a smaller decrease in kinematic viscosity with increasing temperature of the product.

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. C



APPLICATION

Given today's highly competitive environment, oil refiners are demanding instrumentation that aids in the optimization of the refining process. Therefore, refineries require a reliable and accurate viscosity analysis system to meet the required specifications. This analysis will allow the operators to optimize the refining process and therefore lower production costs while improving product quality.





Special Features:

- Customizable 2–4000 cP Sample Range (kinematic output in cSt)
- Continuous Sample Viscosity and Viscosity Index output
- Does not require atmospheric recovery system
- Modbus
- Remote Bath Temperature Set Point Change
- Up to 8 programmable Viscosity Points

Norms and Standards:

- Correlates with: ASTM D445
- **ASTM D2270**

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



BARTEC 📈

EXPLOSION PROTECTION

Ex protection marking

ATEX: Ex d II B + H2 [ia II C] T3 Gb CSA/CUS Class I Div 1 Group C + D CE 0518

TECHNICAL DATA

Technology Method

Measuring ranges and temperatures Repeatability **Reproducibility**

Measuring cycle Product streams Electrical data **Nominal voltage**

Maximum power consumption **Protection class Ambient conditions**

Ambient temperature Ambient humidity

Sample

Quality

Properties Consumption **Pressure at inlet Temperature at inlet Process sample**

Iltilities

Coolant Consumption **Temperature Pressure at inlet** Quality

dual bath capillary type

correlates with: **ASTM D445, ASTM D2270**

up to 4000 cP ± 1 % full scale correlates with: ASTM D445, ASTM D2270 continuous lube oils, asphalts and bunker fuels

220 VAC, 50/60 Hz, 1 phase Heater and Pumps 120/220 VAC, 50/60 Hz, 1 phase Electronics

30 A, less than 6000 W IP 65

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

less than 10 µm, filtered

5 l/h (fixed meter in pump) 1.4 to 14 bar (20 to 203 psi) ± 38°C (68°F) of bath temperature max temperature 111°C (232°F)

depends on application (consult factory) 0 to 50°C (32 to 122°F) 1 to 60 bar (14 to 870 psi) clean and filtered (10 µm)

Signal outputs and inputs

eignai eathais ana mhais	
Analog outputs	3 standard, VI, V40 and V100
Digital outputs	up to 3 dry contacts programmable, remote standby, analyzer fault, value alarm
Digital inputs	up to 2, customer alarm, remote standby

3 standard

3 standard

dry contact

1/4" FNPT

1/4" FNPT

7" color graphics

5 button magnetic, no hot work permit required

Electrical data of signal outputs and inputs

Analog outputs Digital outputs Digital inputs

User interfaces

Display Keyboard

Connections

Sample inlet Sample outlet

Weight and dimensions

Weiaht Dimensions (W x H x D)

Optional interfaces

Analog outputs **MODBUS interface** optional (bath temperature, density)

(62" x 76" x 30" in)

approx. 1575 x 1938 x 381 mm

approx. 272 kg (600 lbs)

TCP/IP or Serial/RTU 485

Important notice P-950 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

4724 South Christiana Chicago, IL 60632 / USA Tel: + (1) 773 927-8600 Fax : + (1) 773 927-8620 sales@bartec-orb.com www.bartec-orb.com





- 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

4724 South Christiana Chicago, IL 60632 / USA Tel: + (1) 773 927-8600 Fax : + (1) 773 927-8620

> sales@bartec-orb.com www.bartec-orb.com