





Viscosity Index Analyzer Model P–950

# Viscosity Index Analyzer Model P-950

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.



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



#### **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**





#### **EXPLOSION PROTECTION**

**Ex protection marking** ATEX: Ex d | | B + H2 [ia | C] T3 Gb

CSA/CUS Class | Div 1 Group C + D

( **E** 051

**TECHNICAL DATA** 

**Technology** dual bath capillary type

**Method** correlates with:

**ASTM D445, ASTM D2270** 

Measuring ranges and temperatures

and temperatures up to 4000 cP

Repeatability ± 1 % full scale

Reproducibility correlates with:

**ASTM D445, ASTM D2270** 

Measuring cycle continuous

**Product streams** lube oils, asphalts and bunker fuels

Electrical data

Nominal voltage 220 VAC, 50/60 Hz, 1 phase Heater

and Pumps

120/220 VAC, 50/60 Hz, 1 phase Electronics

Maximum power consumption

consumption 30 A, less than 6000 W

Protection class IP 65

Ambient conditions

**Ambient temperature** operation 5 to 40°C (41 to 104°F)

**Ambient humidity** up to 90 %

**Sample** 

Quality less than 10 μm,

filtered

**Properties** 

**Utilities** 

Coolant

**Consumption** depends on application (consult factory)

Temperature 0 to 50°C (32 to 122°F)

Pressure at inlet 1 to 60 bar (14 to 870 psi)

Quality clean and filtered (10 μm)

**Signal outputs and inputs** 

Analog outputs 3 standard, VI, V40 and V100

Digital outputs up to 3 dry contacts programmab

up to 3 dry contacts programmable, remote standby, analyzer fault,

value alarm

**Digital inputs** up to 2, customer alarm, remote standby

**Electrical data of signal outputs and inputs** 

Analog outputs 3 standard
Digital outputs 3 standard
Digital inputs dry contact

**User interfaces** 

**Display** 7" color graphics **Keyboard** 5 button magnetic,

no hot work permit required

**Connections** 

Sample inlet 1/4" FNPT Sample outlet 1/4" FNPT

**Weight and dimensions** 

 Weight
 approx. 272 kg (600 lbs)

 Dimensions (W x H x D)
 approx. 1575 x 1938 x 381 mm

(62" x 76" x 30" in)

**Optional interfaces** 

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

MODBUS interface 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.



