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Proceviscosity Analyzer Model P-900

Credible Solutions for the Oil and Gas Industry

Viscosity Analyzer Model P-900 SS 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.

Absolute viscosity provides a measure of a fluid's internal resistance to flow.

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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

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.

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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 II B + H2 [ia II C] T3 Gb CSA/CUS Class | 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**

Utilities

Coolant Consumption **Temperature Pressure at inlet** Quality

capillary type, absolute / dynamic viscosity

2-4000 cP ± 1 % full scale or better correlates with: ASTM D445 continuous, response time T90: 180 Sec 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

less than 4000 W IP 65

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

filtered 10 µm - optional sample, conditioning system available, without free water

5 l/h (fixed metering 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

Analog outputs	1 standard for viscosity, programmable for cST or cP, selectable for sample viscosity values, analyzer system / maintenance warning or analysis measurement indication
Digital outputs	3 dry contact outputs, selectable for sample viscosity value alarm, analyzer maintenance warning or
	analyzer fault alarm
Digital inputs	up to 2, customer alarm, remote standby

1 optional

drv 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

Weight Dimensions (W x H x D) approx. 159 kg (350 lbs) approx. 1341 x 1803 x 762 mm (52.75" x 71" x 30" in)

isolated 4-20 mA output, 1 standard,

resistive load at 250 VAC

3 SPDT Relays with contacts rated at 3 A

Optional interfaces

Analog outputs MODBUS interface optional (bath temperature, density) TCP/IP or Serial/RTU 485

Important notice P-900 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.

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