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Cloud Point Analyzer Model P–820LT, Low Temperature

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 cloud point is the temperature at which wax crystals form in a sample as it is cooled giving the sample a cloudy appearance.

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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 analysis system of the Cloud Point temperature 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





1 standard 4-20 mA self powered and

up to 3 dry contacts 250 VAC, 3A

up to 4 dry contact, (dry contact)

EXPLOSION PROTECTION

Ex protection marking

ATEX: Ex d II B 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 Product streams 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 Vortec Purge
Pressure at inlet
Quality
Coolant
Consumption

Temperature Pressure at inlet Quality absorbance or reflectance correlates with: ASTM D2500 -100 to 25°C (-148 to 77°F) can go to -200°C (-328°F) ≤ 0.25°C correlates with: ASTM D2500 less than 5 min diesel, kerosene

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

600 W IP 65

-20 to 40°C (-4 to 86°F) up to 90 %

clean and filtered, less than 10 µm 60 to 120 l/h 1 to 24 bar (348 psi) 15 to 95°C (59 to 176°F)

If air cooled cyro then 25 CFM 12 I/h 5 to 9 bar (80-120 psi) plant air

if liquid cooled cyro then 240 l/h (air cooled / no coolant) -10 to 40°C (14 to 86°F) 1 to 20 bar (min 2 bar difference) clean and filtered

Signal outputs and inputs

Analog outputs	Cloud Point, cell temperature, optical signals
Digital outputs	Cloud Point alarm, analyzer fault, come read
Digital inputs	customer alarm, remote standby, stream switch, validation request

isolated, 1 optional

7" color graphics

5 button magnetic

no hot work permit required

Sample inlet 1/4" FNPT

Sample outlet 1/4" FNPT

Electrical data of signal outputs and inputs

Digital outputs Digital inputs

Analog outputs

User interfaces

Display Keyboard

Connections

Pipe fittings

Weight and dimensions

Weight Dimensions (W x H x D) approx. 228 kg (500 lbs) approx. 940 x 1803 x 762 mm (37" x 71" x 30" in)

Optional interfaces

Analog outputs MODBUS optional (Sig0, Sig90, cell temperature) TCP IP / Serial RTU

Important notice P-820LT 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



