Salt in Crude Analyzer Model P–600

Credible Solutions for the Oil and Gas Industry
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.

Salt in crude is the amount of chloride based salts found in the sample in weight per volume.

**APPLICATION**

In certain areas of the world, crude oils with high level of salts exist. This crude oil must still be transported and refined and the high levels of salt pose problems if left untreated. De-Salting technology is well established but to be utilized effectively the need for quick and accurate measurements of the level of salt concentration is necessary. The immediate response of an on-line analyzer allows the operator to use De-Salters as efficiently as possible.

- **Variable measurement ranges of up to 0–400 PTB (0–1000 mg/L)**
- **Rapid analysis cycle of 6 minutes**
- **Superior repeatability of 2% of scale**
- **Reliability better than 99% uptime**
- **Micro sample analysis reduces solvent consumption**
- **Precise bi-directional cell temperature control**
- **Incorporated rinse/flush system**
- **Remote diagnostics over IP**
Special Features:
- Micro samples
- Low solvent consumption
- Cell temperature control
- Enclosed solvent tanks
- Fully automatic
- Local interface
- Supports Modbus
- Remote stand by option

Norms and Standards:
Correlates with:
- ASTM D3230

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
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EXPLOSION PROTECTION
Ex protection marking  ATEX: Zone 1 II B + H2 T6
CSA/CUS Class I Div 1 Group B, C + D

TECHNICAL DATA
Technology  chemical mixing
Method  correlates with:
ASTM D3230
Measuring range  0 to 400 PTB (0 to 1000 mg/L)
Repeatability  2 % of scale
Reproducibility  ± 1 % of scale
Measuring cycle  6 min typical
Measuring temperature  programmable, typical 50°C (122°F)

Electrical data
Nominal voltage  110 or 220 VAC, 1 phase; 50/60 Hz
Maximum power consumption  600 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  filtered 100 µm, without water

Properties
Consumption  3.0 to 6.0 l/h
Pressure at inlet  2 to 10 bar (29 to 145 psi)
Temperature at inlet  10 to 60°C (50 to 140°F)

Utilities
Instrument air
Consumption  less than 60 l/h
Pressure at inlet  4 to 8 bar (58 to 116 psi)
Quality  clean dry, instrument air
Coolant  Not required

Signal outputs and inputs
Analog outputs  1 standard, 1 optional
Digital outputs  3 dry contacts programmable
Digital inputs  up to 4 dry contact inputs, (customer alarm, remote standby, stream switch, validation request)

Electrical data of signal outputs and inputs
Analog outputs  up to 2 to 4-20 mA self powered and isolated, 1 is standard
Digital inputs  None required

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
Vent/Drain  1/4” FNPT

Weight and dimensions
Weight  228 kg (500 lbs)
Dimensions (W x H x D)  940 x 1803 x 762 mm (37” x 71” x 30” in)

Optional interfaces
Analog outputs  optional, conductivity, cell temperature
MODBUS interface  TCP/FP or Serial/RTU MODBUS output available

Important notice: P-600 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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