



Process Analyzer

Salt in Crude Analyzer Model P-600

Credible Solutions for the Oil and Gas Industry

Salt In Crude Analyzer Model P-600

Process 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.

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



Your partner
for innovative
system solutions.



The BARTEC
specialists have
many years of expe-
rience. They create
system solutions
that you can rely
on: efficient and
dependable for
decades to come.

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

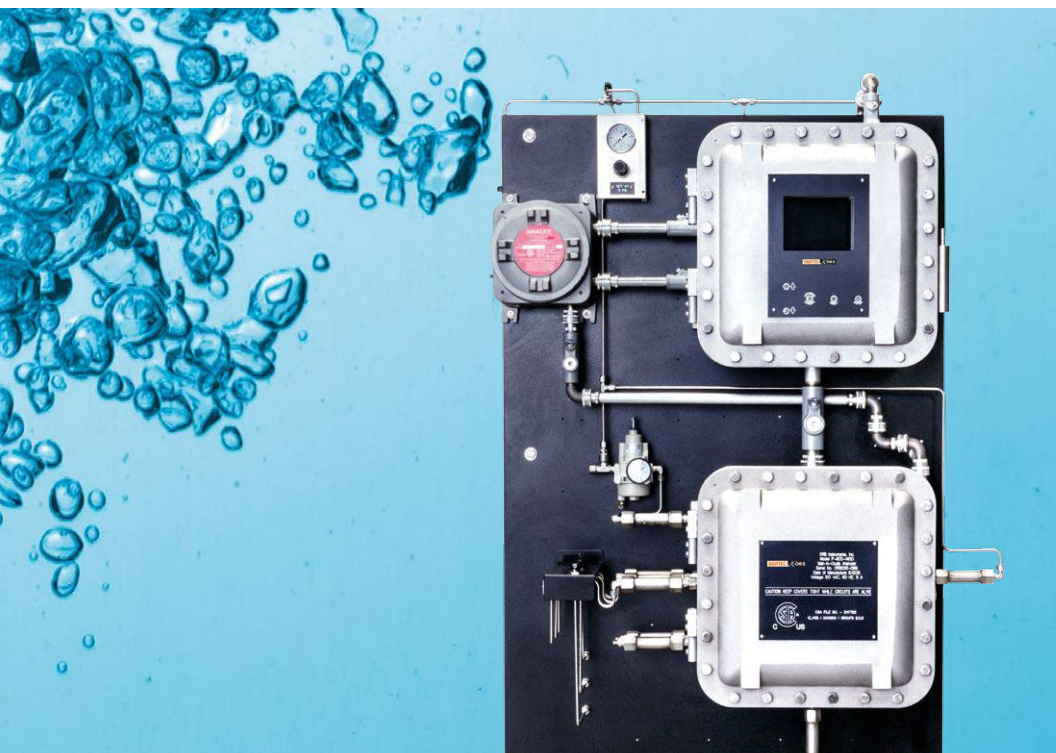
Precise bi-directional cell temperature control

Incorporated rinse/flush system

Remote diagnostics over IP

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.



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**



EXPLOSION PROTECTION

Ex protection marking ATEX: Zone 1 II B + H2 T6
CSA/CUS Class I Div 1 Group B, C + D
CE₀₅₁₈

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

Analog inputs None required

Digital outputs up to 3 dry contacts programmable, alarm critical, come read, alarm warning

Digital inputs up to 4 dry contact inputs, (customer alarm, remote standby, stream switch, validation request)

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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