

# SALT CONTENT



## ADVANTAGES

- *Accurate determination of salt content in crude oil*
- *Display of salt content in user units*
- *Simple and easy to use*
- *Multi-calibration capacity using Windows® software*

# Automated Salt in Crude

## SC 960

Elevated salt concentrations in crude oil may result in higher corrosion rates of refining units. The measurement of salt content is made to determine if desalting of crude oil is required or to test the efficiency of the desalinization process. Typically, the concentration is reported as pounds of NaCl per thousand barrels (PTB) of crude oil.

The compact Herzog SC960 Salt in Crude tester automatically measures the salt content of crude oil in a solvent solution as specified in ASTM D 3230. The instrument applies a low level excitation voltage and measures the conductivity. The microprocessor compares this value to the current calibration (that has been memorized), and displays the salt content. This technique eliminates the need to work with a high voltage cell and reduces the safety risks of the operator.



## METHODS

ASTM D 3230

# Salt in Crude Oil Tester *Precise, repeatable results*

## OPERATION

A 15 ml crude oil sample is equilibrated with xylene and then diluted with mixed alcohol solution. The solution is then transferred into the measurement beaker and the stainless steel electrode assembly is inserted. The SC 960 automatically measures the resulting conductivity and displays the salt content corresponding after having rated this content with the inboard calibration table that has been previously developed.

## CALIBRATION

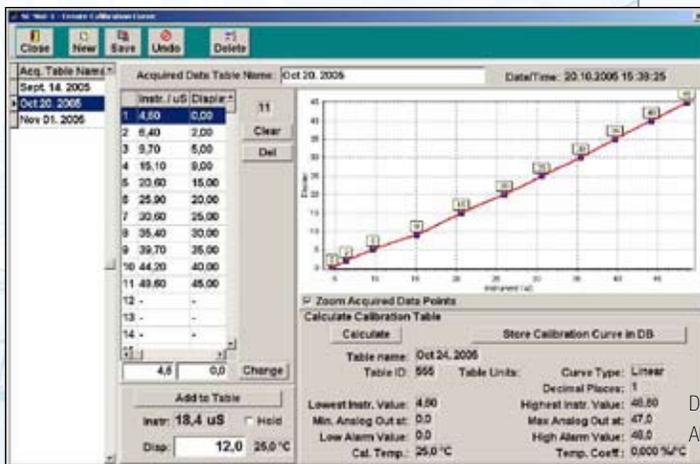
Initial and periodic calibrations for Herzog SC960 are performed by Windows software HLIS32-SC with SC960 connected to a computer through RS232C interface. The supplied software allows collection of new calibration data, edition of existing data and generation of the calibration tables which will be used in the instrument. Up to two calibration tables can be transferred to the analyzer at a time, and the SC960 will operate in stand alone.

All Herzog products are  compliant.

Due to continuing product development, specifications subject to change at any time without notice.

## SPECIFICATIONS

<b>Ordering Information</b>	SC960 Salt in Crude Tester, Includes accessories for test (beaker, electrode, cables, calibration software, for ASTM D3230 or equivalent method)
<b>Standard Test Method</b>	ASTM D 3230
<b>Product Programs</b>	3 calibration tables are stored in the unit : one default table and two users tables
<b>Technical Operation</b>	<p><b>Detection Range</b> From 0.2 ptb to %.</p> <p><b>Display Unit</b> Upon user calibration, in PTB, mg/l or any other unit</p> <p><b>Temperature</b> Displayed value is manually adjusted on the unit</p>
<b>Traceability</b>	
<p><b>Test Condition Check</b></p> <p><b>Test Alarms</b></p>	<p>Warning light alarms if test result is outside the calibration range</p> <p>User settable alarms for high and low levels</p>
<b>Calibration &amp; Diagnostics</b>	Calibration can be performed when connected to a computer, using dedicated software HLIS-SC.
<b>Requirements</b>	
<p><b>Electrical</b></p> <p><b>Ambient Conditions</b></p> <p><b>Dimensions &amp; Weight</b></p>	<p>100-240V/50-60Hz auto-switching; Power: 80 W; CE compliant</p> <p>Operation: recommended 15° to 30°C; 80% rel. humidity at 25°C Storage: 0 to +40°C</p> <p>W x D x H 19 27 7 cm without cell assembly 4 kg 11 11 33 cm with cell assembly 1 kg</p>
<b>Options &amp; Accessories</b>	
<p><b>PC Software</b></p>	HLIS32-SC. Enables multi-calibration work, by connected the unit a computer to generate calibration tables, to edit them and transfer them to the unit.



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## FOR ADDITIONAL INFORMATION

### USA

8824 Fallbrook Drive, Houston, Texas 77064  
Phone: 800.444.TEST [281.580.0339] | Fax: 281.580.0719  
sales@pacpl.com | service-lab@pacpl.com

### France

BP 70285 - VERNON - 14653 CARPIQUET Cedex  
+33 (0) 231 264 300 | fax +33 (0) 231 266 293  
sales@pacpl.com.fr | service@pacpl.fr

### Germany

Badstrasse 3-5, P.O. Box 1241 D-97912 Lauda-Königshofen  
+49 9343.6400 | fax +49 9343.640.101  
sales@pacpl.com.de | service@pacpl.de

### Singapore

10, Eunos Road 8, #12-06 Singapore Post Centre 408600  
+65 6742 8453 | fax +65 6742 8759  
sales@pacpl.com.sg | service@pacpl.com.sg

YOUR LOCAL REPRESENTATIVE: