



HIAC 8011+

Liquid Particle Counting System

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Liquid Particle Counting System

...designed for the real world.

Intelligent on-screen prompts guide users through common sampling activity.

- Advanced instrument diagnostics with recommended actions for users
- User alerts for particle settling and run-to-run variances
- HRLD Smart Sensor alerts for service and calibration due

Sample management system ensures consistent, accurate data.

- Pressurized sample delivery reduces the impact of bubbles
- Integrated Vacuum/Degas function streamlines sample handling for increased accuracy
- Automated sample flow for precision data

Fewer steps...increase throughput.

- One button sampling - results under 60 secs
- Quickly load up to 20 custom test recipes
- Set up your own sampling recipe in less than 5 steps

Stop wasting time diluting samples and cleaning the instrument.

- No dilution required for high viscosity fluids (<425cSt)
- Automated cleaning and flushing routines
- Sensor contamination alarm informs you in advance to ensure you clean prior to wasting sample and getting bad data



• Petrochemical Industry



• Injection Molding Plants



• Marine Industry



• Aerospace Industry



Immediate particle concentration data

Eliminate printing and go paperless. Get the data immediately in a PDF or Excel® file.

- Create application specific reports in PDF or Excel® format
- Embedded web browser for online report review and approval
- Export reports via USB memory stick or Ethernet

On-site HIAC expertise. Call us, speak with a HIAC expert.

- On-site service and calibration
- Notification with a phone call when your unit is in need of routine service
- Free technical support for the life of your instrument



Monday, February 01, 2016 6:02:13 PM

Sampling

Recipe "test" - Run 1
Report "NAVAR 01-17"
Differential (Counts/200ul)

Size (um)	Differential	Class
5.000 - 15.000	0.0	
15.000 - 25.000	0.0	
25.000 - 50.000	0.0	
50.000 - 100.0	0.0	
> 100.0	0.0	

Display histogram

Monday, February 01, 2016 3:21:25 AM

edit recipe

1	Recipe name: recipe name	Save
2	Recipe title: recipe title	Next page
3	Recipe subtitle: recipe subtitle	
4	Sample volume: 25	Details
5	Number of runs: 5	Export
6	Dilution factor: 1	Run recipe
7	Use background subtraction: YES	
8	Discard first run: NO	Discard changes
9	Reports Run counter (per ml)	

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Historical Data

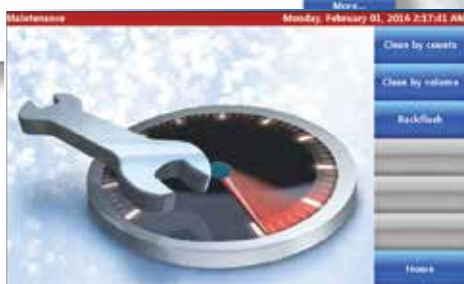
NAVAR 01-17

File Path: \\NAVAR 25
Calibration Method: PPL
Sample Volume: 25.00
Number of Runs: 5
Dilution factor: 1
Background Subtraction: YES
Discard first run: NO
Reporting Standard: NAVAR 01-17

Sample Type: 3120001500101
Operator Name: User
Self counter: 1: default
Hold Search: default
Field Search: default
Hold Search: default
Field Search: default

Run ID	Completed	Class
1.000	NAVAR	0
2.000	NAVAR	0
3.000	NAVAR	0
4.000	NAVAR	0
5.000	NAVAR	0

Next record >>
Previous record <<
Next day >>
Prev day <<
Jump to date
More...



Specifications

<i>Weight (without sensor)</i>	58.2 lbs, (26.4 kg)
<i>Sample Flow Rate</i>	(mL/min) 10 to 100 (sensor dependent)
<i>Sample Volume</i>	(ml) 5 to 100
<i>Tare Volume</i>	(ml) 0.1 to 100 ml in 0.1 ml steps, not to exceed 1056 ml minus total sample volume
<i>Flow Accuracy</i>	+/- 2.5%
<i>Viscosity Range</i>	1-425cSt
<i>Operating Pressure Range</i>	maximum = 90psi
<i>Operating Temperature Range</i>	10 to 40°C
<i>Storage Temperature Range</i>	-35 to -65°C
<i>Relative Humidity</i>	10% to 80%, non-condensing
<i>Max Altitude</i>	6,500 ft.
<i>Communication, Host I/O</i>	Ethernet and 2 USB ports
<i>Safety Feature</i>	Waste container full alarm with optional float switch
<i>Instrument Power</i>	100 - 240VAC, 50/60 Hz, 0.5 A
<i>Air Source</i>	Shop or pump
<i>Optional Pump Power</i>	110 to 120 VAC, 60 Hz, 4.5 A 100 VAC, 50 Hz, 4.5 A 220 to 240 VAC, 60 Hz, 1.9 A
<i>Liquid Agitation Method</i>	Electromagnetic stirrer
<i>Fluid Degas Method</i>	Vacuum (requires optional pump)
<i>Fluid Compatibility</i>	Fluids compatible with stainless steel, glass and Teflon including: MIL-H-5606, MIL-H-83282, Shell Tellis™, Monsanto Skydrol™ version Akso Fyrquel™, Mobile Zerol™ 150, Marston Bentley HW 540 Monsanto Coolanol™, Stoddard Solvent, Jet Fuel (JP4, JP5) Kerosene, Diesel Fuel, Mineral Oil, Ethers, Alcohols, Aldehydes Ketones, Esters, Aromatics, Water
<i>Sensor Cleaning Methods</i>	Back flush, clean to count, and clean to volume
<i>Particle Size Range</i>	0.5 µm to 600 µm (sensor dependant)
<i>Number of Size Channels</i>	18
<i>Reporting Standards</i>	ISO, NAS, SAE, GOST, DOD and ASTM, User defined, Raw counts
<i>Calibrations</i>	Polystyrene spheres in DI water and glycol ACFTD in 5606 ISO-MTD in 5606 (except HRLD-400) ISO11171 in 5606 (except HRLD-400 & MC-05) ISO-MTD & ACFTD in 5606 (HRLD-100 & 150 only)
<i>Data Output</i>	pdf, tsv, import and export recipes over USB Web browser interface over Ethernet
<i>Languages</i>	English, French, German, Chinese, Italian, Spanish
<i>IP Rating</i>	IP30 per IEC 60529
<i>User Serviceable Items</i>	Desiccant, pneumatic and hydraulic filters
<i>Calibration Interval</i>	Recommend annual calibration
<i>Display</i>	7" color, non-touch screen
<i>Data Buffer</i>	3,000 records
<i>Printer</i>	Optional USB thermal printer
<i>Compliance Declarations</i>	CE, cETLus, KCc, C-Tic
<i>Smart Sensor Interface</i>	Smart Sensor Ready (allows for reading calibration information from sensors with onboard memory)



Contact us to place an order, request information or receive technical support.



Service packages and extended warranty up to 5 years.



On site technical support.



Seminars and workshops: Practical and hands on training.



Regular customer information by post and email.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.