



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
- 1-800-866-7889



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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

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edit recipe

| | | |
|---|----------------------------------|-----------------|
| 1 | Recipe name: recipe name | Save |
| 2 | Recipe title: recipe title | Next page |
| 3 | Recipe subtitle: recipe subtitle | |
| 4 | Sample volume: 25 | Delete |
| 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

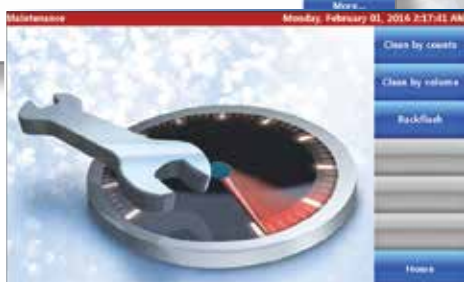
NAVAR 01-17

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) 1 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.



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