

HIAC 8012

LIQUID PARTICLE COUNTING SYSTEM



Syringe sampler for dark, viscous fluid analysis

Features

- Measures viscous samples (up to 1800cp)
- 1% flow rate reproducibility
- Sample volumes as low as 3 mL
- Minimizes errors due to particle settling, dilution and background contamination

Applications

- Fluid cleanliness measurements
- High viscosity oils
- Final drive and transmission fluids

The HIAC 8012 Liquid Particle Counting System analyzes viscous, dark and dirty fluids without dilution. The HIAC 8012 counts particles in tractor final drives, greases and chemicals without sample pretreatment. The system includes the HIAC Syringe Driven Sampler (SDS), 8000A counter and an HRLD 400HC sensor.

The HIAC SDS enables particle size analysis of premium liquids such as the lubricants found in a heavy hydraulic equipment. This sampler is designed for high viscosity fluids and applications where only small amounts of sample are available. The SDS features a stepper motor-driven lead screw—a reliable, repeatable actuator. Using this powerful actuator, fluids may be sampled without dilution. The result – elimination of errors associated with dilution, transitional movement and sample preparation.

The HIAC 8000A Counter processes and displays sample data in real-time. The liquid crystal display (LCD) presents the user with images of the particle size distribution data in tabular and graphical formats. Reporting parameters, such as alarm conditions and standards protocol are also available for display. The 8000A is completely menu-driven, providing keyboard entry for calibration/voltage settings.

Performance Specifications

8000A COUNTER

Data Input/Output	Printer, LCD display, RS-232C
Operating Environment	7 to 52°C (45 to 126°F) Up to 95% relative humidity, non-condensing
Power	115 VAC ± 10%, 60 Hz ± 1% 230 VAC ± 10%, 50 Hz ± 1%
Dimensions	41 w x 31 d x 17 h cm (16 x 12 x 6.5 inches)
Weight	7.7 kg (17 lbs)

SDS SYRINGE DRIVEN SAMPLER

Sample Flow Rate	20 mL/min
Maximum Sample Viscosity	1800 centipoise
Operating Environment	10 to 40°C (50 to 104°F) 0 to 80% relative humidity, non-condensing
Power Voltage	100 to 240 VAC
Frequency	47 to 63 Hz
Maximum Current	0.630 Amps @ 115 VAC 0.50 Amps @ 230 VAC
Dimensions	28 w x 25.5 d x 57 h cm (11 x 10 x 22.5 inches)
Weight	9.5 kg (21 lbs)

SENSOR

	HRLD 400HC (Refer to HRLD datasheet)
Optional Accessories	Phosphate Ester-based Fluid Compatible Sampler Certified Clean Bottles



Global Headquarters

6, route de Compois, CP 212
1222 Vérenaz, Geneva, Switzerland
Tel +41 (0)22 594 64 00
Fax +41 (0)22 594 64 99

Americas Headquarters

481 California Avenue
Grants Pass, Oregon 97526, USA
Tel 1 800 866 7889 / +1 541 472 6500
Fax +1 541 472 6170



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