PAC | solid partners proven solutions



OptiCPP

Automated Cloud and Pour Point Analyzer

- Precise and reliable analysis performance
- Powerful and flexible operation with ultra-low temperature capabilities
- Enhanced calibration features for full compliance and quality assurance
- Ergonomic cordless cloud point and pour point heads
- Multiple options to calibrate temperature probes

OptiCPP

CLOUD AND POUR POINT TESTING FOR FUELS

Combining a revolutionary patented built-in cooling system and highly precise detection mechanism,ISL's OptiCPP performs pour and/cloud point testing of any petroleum products, down to -95°C (-139°F), in accordance with all the international standards.Its unique cooling technology eliminates external liquid connections, heat and noise but also the maintenance associated with external cooling.

100% configurable, the OptiCPP accommodates your unique testing requirements, yet also provides strict compliance to international standard test methods. Automation enables unattended operation with excellent reproducibility and repeatability.

The OptiCPP is ready to work whenever and wherever you are; simply plug in the electrical cord, and begin testing. Pour point is detected by tilting the sample — no turning, pressing or twisting — as an optical surface. The detection system precisely monitors the movement of the specimen surface whereas optics detect cloud point in the specimen when wax crystals first appear.

APPLICATION RANGE

- Lubrication oils
- Base stock oils
- Distillate fuels
- Liquid petroleum products
- Biodiesel



STANDARD METHODS & SPECIFICATIONS

In accordance with:

Cloud Point:
- ASTM D5771
- IP 444
- EN 23015
- EN 590

Pour Point:
- ASTM D5950

In correlation to:

Cloud Point:
- ASTM D2500
- ISO 3015
- IP 219
- JIS K2269

Pour Point:
- ASTM D97
- ISO 3016
- IP 15
- JIS K2269

MULTI-INSTRUMENTS NETWORK WITH IRIS SOFTWARE

- Simple connection setup and use
- Connect lab instruments locally or from anywhere in the world
- Password protection at various levels
- User traceability
- Designed for regulatory compliance
- Integrated statistical process control charting
- Remotely control multiple instruments from a single workstation
- Customizable to meet lab specific needs
- Share printer for multiple instruments
- Centralized LIMS transfer and configuration

KEY FEATURES

SIMPLE AND PRECISE TESTING

- Powerful precision, simple operation with ultra-low temperature testing capabilities
- Compact and portable; easily moves throughout your lab to area ideal for your unique workflow
- Quick test setup: on-screen prompts, pre-programmed methods
- Fully configurable test parameters for customized testing
- Real-time display of test progress and results
- Three options to calibrate temperature probes: automatic, manual & automatic using external temperature bath

BUILT-IN COOLING INCREASES POWER

- Completely self-contained, cooling system
  - enables ultra-low temperature testing
  - saves energy
  - eliminates heat, noise, external liquid connections and toxic coolant vapors
- Standard or customized stepped, or linear sample cooling profiles

RELIABLE PERFORMANCE & QUALITY COMPLIANCE

- Automatic calibration with frequency program; probe correction capabilities
- Stores time-recorded, automatic calibrations with results
- Endurance tested and proven for long-term operation
- Ergonomic cordless cloud point and pour point heads



FRIENDLY INTERFACE
7-inch color touch-screen

CONNECTIVITY
USB port for easy data transfer

EASE OF USE
Ergonomic cordless heads

SPECIFICATIONS

General Info		
Ordering Information	OptiCPP —Cloud & Pour Point Analyzer— with built-in cooling system. Delivered complete, ready for operation, with one detection head: pour point OR cloud point	
Standard Test Method & Specifications	Pour Point: ASTM D97, D5950, D5853; IP 15; ISO 3016; JIS K2269 Cloud Point: ASTM D2500, D5771; EN 23015; EN 590; IP 219, 444; ISO 3015; JIS K2269	
Performance		
Detection	Pour Point: tilting methods Cloud Point: optical	
Cooling	Internal cooling system; stepped cooling according to method or user defined; up to 20 steps can be customized	
Test Interval	Pour Point: programmable 1 to 5°C in steps of 0.1°C Cloud Point: automatic 0.1°C or according to the method	
Temperature Range	Jacket: -105 to +55°C (-157 to +131°F) Sample: -95 to +51°C * (-139 to 123°F) NOTE: Samples having EPP higher than +35°C have to be preheated externally Do not put samples hotter than 70°C into unit	
Temperature Measurement	Jacket: 0.5°C accuracy; Pt100 metal probe sample: 0.1°C accuracy; Pt100 glass or metal probe engraved with serial number	
Password Security	Multi-level password protection	
Calibration	User defined Calibration Intervals Automatic Diagnostic functions	
Documentation	On-screen and printed reports (USB/RS printer) Connection to PC or RS (delivered as standard) Up to 200 results in memory; unlimited storage with PC enhanced data management with optional IRIS	
Utility Requirements		
Electrical	90-240 VAC, 300W, 50/60 Hz	
Dimensions (W x D x H)	25.4 x 60 x 35 cm (10 x 23.6 x 10.8 in.)	
Weight	30.2 kg (67 lbs)	
PAC IRIS Software features for OptiCPP		
• Run Control • Results	• Calibration • Reports	• Quality Control • Instrument Parameters
Options & Accessories		
Mini Test Jar	Enables quick pour point measurements using only 15 ml samples	
Reference Materials	Wide range of CRM material for cold flow performance testing available	

Continuing research and development may result in specifications or appearance changes at any time

ABOUT PAC

PAC develops advanced instrumentation for lab and process applications based on strong **Analytical Expertise** that ensures **Optimal Performance** for our clients. Our analyzers help our clients meet complex industry challenges by providing a low cost of ownership, safe operation, high performance with fast, accurate, and actionable results, high uptime through reliable instrumentation, and compliance with standard methods.

Our solutions are from industry-leading brands: AC Analytical Controls, Advanced Sensors, Alcor, Antek, Herzog, ISL, Cambridge Viscosity, PSPI, and PetroSpec. We are committed to delivering superior and local customer service worldwide with 16 office locations and a network of over 50 distributors. PAC operates as a unit of Roper Technologies, Inc., a diversified technology company and a constituent of S&P 500, Fortune 1000, and Russell 1000 indices.

HEADQUARTERS

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PAC representative closest to you.

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