



## AUTOMATED Cloud & Pour Point Analyzer

### ADVANTAGES:

- **Ultra low temperature testing to -95°C**
- **Compact and portable**
- **Simple, 1-button test initiation**
- **Standard or customized stepped cooling profiles**
- **Stand-alone operation and/or multi-instrument networking**



### CPP 5GS

With a patented built-in cooling system and highly precise detection mechanism, ISL's CPP 5Gs is the **only instrument able to determine pour and/or cloud point of all sample types at ultra low temperatures below -90°C (-130°F)**. Its unique cooling technology eliminates external liquid connections and the heat and noise associated with external cooling. Moreover, this **ultra-compact, easy to use** instrument is ready to work whenever and wherever you are; simply plug in the electrical cord, and begin testing. The unit can be powered from car battery with an optional adapter.

The CPP 5Gs determines pour point of petroleum products by tilting the sample—no turning, pressing or twisting—as an optical detection system precisely monitors movement of the specimen surface. Precise optics detect cloud point in the specimen when wax crystals first appear.

The CPP 5Gs is 100% configurable to accommodate your unique testing needs, yet also provides strict accordance to method in standardized testing. Automation enables unattended operation with greatly **improved reproducibility and repeatability**. This fully self-contained, stand alone unit is further enhanced with ISL's optional ALAN™ Windows-based software, which enables PC-based operation and multi-instrument networking with **powerful data management and export features**.

### APPLICATIONS

## Cold Behavior

LUBRICATION OILS

BASE STOCK OILS

PAO

DISTILLATE FUELS

LIQUID PETROLEUM PRODUCTS

BIODIESEL

### METHODS:

ASTM D 97

ASTM D 2500

ASTM D 5950

ASTM D 5853

ASTM D 5771

ISO 3015

ISO 3016

IP 15

IP 219

IP 444

JIS K 2269

# ISL CPP 5Gs: Cloud & Pour Point Analyzer

## Powerful precision, simple operation, ultra-low temperature testing

SPECIFICATIONS	
<b>Ordering Information</b>	<b>CPP 5Gs Cloud &amp; Pour Point Analyzer with built-in cooling system.</b> Includes alphanumeric, solvent-proof keypad and easy to read LCD with real time test results. Delivered with one detection head: pour point or cloud point. Also contains 2 test tubes corresponding to selected test, and 4 cork rings & disks.
<b>Standard Test Methods</b>	
Pour Point	ASTM D 97, D 5950, D 5853; IP 15; ISO 3016; JIS K2269
Cloud Point	ASTM D 2500, D 5771; IP 219, 444; ISO 3015; JIS K2269
<b>Operation</b>	
Detection	<i>Pour Point:</i> optical, tilting <i>Cloud Point:</i> optical, stepped cooling
Cooling	Internal cooling system; Stepped cooling according to method or user defined; Up to 20 steps can be customized
Test Interval	<i>Pour Point:</i> programmable 1 to 5°C in steps of 0.5°C <i>Cloud Point:</i> automatic 0.1°C or rounded
Temperature Range	<i>Jacket:</i> -105 to +55°C (-157 to +131°F) <i>Sample:</i> -95 to +51°C * (-139 to 123°F) * samples having EPP higher than +35°C have to be preheated externally
Temperature Measurement	°C or °F <i>Jacket:</i> 0.5°C accuracy; Pt100 metal probe <i>Sample:</i> 0.1°C accuracy; Pt100 glass (standard) or metal (optional) probe engraved with serial number; delivered with calibration certificate
Password Security	Multi-level password protection
<b>Calibration</b>	Automatic temperature calibration routine; 20-point temperature probe correction table; Programmable calibration frequency
<b>Documentation</b>	On-screen and printed reports (Centronics® link) Connection to PC or RS (delivered as standard) Up to 99 results in memory; unlimited storage with PC Enhanced data management with optional ALAN™
<b>Utility Requirements</b>	
Electrical	100–240 VAC, 150W, 50/60 Hz
Dimensions	30cm W x 65cm D x 34cm H (11.8" x 26.6" x 13.4")
Weight	28 kg (62 lbs)
<b>Options &amp; Accessories</b>	
ALAN® Software	Enables multi-analyzer networking with centralized operation and data management
Mini Jar	Enables quick pour point measurements using 15ml of sample
DC power adapter	Enables to power the unit from car battery
Reference Materials	Wide range of CRM material for cold flow performance testing is available from PAC

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



### FOR ADDITIONAL INFORMATION

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### SIMPLE, PRECISE TESTING

- 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
- Completely self-contained, patented cooling system
  - enables ultra-low temperature testing
  - saves energy
  - eliminates heat, noise, external liquid connections and toxic coolant vapors of external cooling units
- Instrument cooling jacket can be used as independent cooling bath for other cold behavior manual tests, such as CFPP

### RELIABLE PERFORMANCE & QUALITY

- Automatic calibration with calibration frequency program; probe correction capabilities
- Stores time-recorded, automatic calibrations with results
- Endurance tested and proven for long-term operation
- Accommodates and enhances most rigorous quality control programs

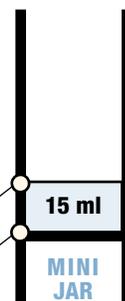
### OPTIONAL PC CONTROL & MULTI-INSTRUMENT NETWORKING

- Centralizes control and data management of up to 31 ISL ALANready™ cold behavior, distillation & flash point instruments
- Test initiation from central PC or from instrument
- Automatically stores results to database with sorting, filtering capabilities
- Transmits results to external computer, network or LIMS with data extraction mask for each test program
- Stores test programs, calibrating conditions, and service parameters for easily trackable quality verification
- Stand-alone and/or PC controlled operation; multi-instrument networking with ISL's optional ALAN® software
- Compatible with other Windows-based applications

### MINI JAR FOR FAST POUR POINT MEASUREMENT

ISL's CPP 5Gs is pre-programmed with a Rapid Cooling Method, which, used in conjunction with ISL's optional Mini Jar, can **reduce test time by 30 to 60%**. The jar uses a smaller sample volume than conventional pour point test tubes, providing more rapid thermal transfer. Mini Jar shows good result correlation to those using the standard sample size.

**Sample Level**  
**Bottom of Mini Jar**



YOUR LOCAL REPRESENTATIVE: