

# CPP 5Gs



## CPP 5Gs

Combining a revolutionary patented built-in cooling system and highly precise detection mechanism, ISL's CPP 5Gs performs pour and/cloud point testing of any petroleum products, down to  $-95^{\circ}\text{C}$  ( $-139^{\circ}\text{F}$ ), 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 CPP 5Gs 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 CPP 5Gs 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. Pour point is detected by tilting the sample — no turning, pressing or twisting — as an optical surface, whereas detection system precisely monitors movement of the specimen surface whereas optics detect cloud point in the specimen when wax crystals first appear.

This fully self-contained, stand alone unit can be 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.

### ADVANTAGES

- Precise and reliable analysis performance
- Powerful and flexible operation with ultra-low temperature capabilities
- Enhanced calibration features for full compliance and quality assurance

### APPLICATION RANGE

- Cold Behaviour**
- Lubrication oils
  - Base stock oils
  - Distillate fuels
  - Liquid petroleum products
  - Biodiesel

### STANDARD METHODS

- | Cloud Point: | PourPoint:   |
|--------------|--------------|
| • ASTM D2500 | • ASTM D97   |
| • ASTM D5771 | • ASTM D5950 |
| • IP 219     | • ASTM D5853 |
| • IP 444     | • IP 15      |
| • ISO 3015   | • ISO 3016   |
| • JIS K2269  | • JIS K2269  |



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## ISL by PAC

ISL is a global provider of scientific apparatus and instruments for testing petroleum and petrochemical products in the lab and online. More than 20 automatic analyzers bearing the ISL brand are recognized for increasing test precision, boosting laboratory efficiency and reducing costs.

## SIMPLE, 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

## RELIABLE PERFORMANCE & QUALITY COMPLIANCE

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

## 5GS' BUILT-IN COOLING: INCREASES POWER, FLEXIBILITY

- 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 allows manual testing of others cold behaviour, such as CFPP (accessories kit available as option)
- Standard or customized stepped OR linear sample cooling profiles

## SPECIFICATIONS

Ordering Information	CPP 5Gs 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 Methods	Pour Point ASTM D97, D5950, D5853; IP 15; ISO 3016; JIS K2269 Cloud Point ASTM D2500, D5771; IP 219, 444; ISO 3015; JIS K2269
<b>Operation</b>	
Detection	Pour Point: tilting method 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 0.5°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) * samples having EPP higher than +35°C have to be preheated externally
Temperature Measurement °C or °F	Jacket: 0.5°C accuracy; Pt100 metal probe Sample: 0.1°C accuracy; Pt100 glass (standard) or metal (optional) probe engraved with serial number
Password Security	Multi-level password protection
Calibration	Automatic temperature calibration routine; 20-point temperature probe correction table; Programmable calibration frequency
Documentation	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	30 cm x 65 cm x 34 cm (W x D x H)
Weight	28 kg (62 lbs)
<b>Options &amp; Accessories</b>	
ALAN® Software	Enables multi-analyzer networking with centralized operation and data management
Mini Test Jar	Enables quick pour point measurements using only 15 ml 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
CFPP Manual Kit	Complete set of accessories including test jars, insulations/stoppers rings and ASTM thermometers. Enables cold filter plugging point manual testing

Due to continuing product development, specifications subject to change at any time without notice. All products are CE compliant.