



APPLICATIONS

Cold Behavior

DIESEL FUELS
BIO DIESEL FUELS

AUTOMATED Cold Filter Plugging Point Analyzers

ADVANTAGES

- **Determines ultra low temperature operability of diesel fuels**
- **Compact and portable**
- **Simple, 1-button test initiation**
- **Standard or customized stepped or linear sample cooling profiles**
- **Electronic vacuum control system with dynamic capabilities**
- **Stand-alone operation and/or multi-instrument networking**



FPP 5GS & FPP 5G

ISL's unique FPP 5Gs combines a **patented built-in cooling** system and highly precise detection mechanism into an **ultra-compact, easy to use** instrument that's ready to work whenever and wherever you are, simply plug in the electrical cord, and begin testing! The FPP5Gs analyzer is the **only instrument to provide portable CFPP testing in strict accordance to EN 116 conditions**. The unit can be powered from car battery with an optional adapter. For labs already equipped with a liquid cooling cryostat, ISL provides an economical, evolutionary solution. The model FPP5G with cooling by an external cryostat offers all testing capabilities and may be upgraded at any time to include the 5Gs' powerful built-in cooling system.

Both models **precisely control jacket cooling and electronic vacuum adjustments** as test specimen is drawn through a mesh filter according to method conditions. Once crystal formation inhibits sample flow within a set time, a CFPP value is detected, displayed and stored to memory. Detailed report available including aspiration curves with automatic recording of anomaly points if appears, and sample temperature behavior during the test. **LIMS data transfer** and auto-print capabilities simplify documentation, while ISL's optional ALAN™ Software offers enhanced PC data management and export features.

METHODS

- EN 116
- ASTM D 6371
- IP 309
- JIS K 2288



ISL Cold Filter Plugging Point Analyzers

Powerful precision, simple operation with ultra-low temperature testing capabilities

SPECIFICATIONS

Ordering Information	<p>FPP 5Gs Cold Filter Plugging Point (CFPP) Analyzer with built-in cooling system. Includes alphanumeric, solvent-proof keypad and a large, easy to read LCD with real time test results.</p> <p>FPP 5G Cold Filter Plugging Point (CFPP) Analyzer. An economical solution for labs already equipped with a liquid cooling cryostat. Upgrade at any time to include the 5Gs' ultra powerful internal cooling system.</p>
Standard Test Method	EN 116, IP 309, ASTM D 6371, JIS K 2288 plus customizable methods; 5 method capacity in stand-alone mode; unlimited method storage when connected to PC.
Operation	<p>Detection: 2 infrared detection barriers</p> <p>Sample Volume: 45 ml</p> <p>Temperature Range: -95 to +35°C (-139 to 95°F)</p> <p>Vacuum: Electronically controlled; 2 programmable vacuum profile types: constant or dynamic</p> <p>Test/Aspiration Settings: Specimen aspiration can be started at programmable temperature or time intervals</p> <p>Cooling Profiles: Programmable stepped or linear (from 1 to 60°C/h) cooling with 5 profiles in the memory</p> <p>Temperature Measurement: °C or °F; PT 100 probe engraved with serial number and delivered with calibration certificate</p> <p>Cleaning: Programmable cleaning cycles with 2 solvents</p> <p>Password Security: Multi-level password protection</p>
Calibration	Automatic calibration routine for sample and jacket temperatures and vacuum measurement. 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 50 results in memory; unlimited storage with PC Enhanced data management with optional ALAN™
Utility Requirements	<p>Electrical: 100–240 VAC, 150W, 50/60 Hz</p> <p>Dimensions: 25cm W x 65cm D x 39cm H (10" x 24½" x 15½")</p> <p>Weight: FPP 5Gs: 28 kg (62 lbs); FPP 5G: 21 kg (46 lbs)</p> <p>External Cooling Unit (5G only): User supplied. Available from ISL as accessory</p>
Options & Accessories	<p>ALAN™ Software: Automatic Laboratory Analyzer Network. Enables multi-analyzer networking with centralized operation and data management. Available as option</p> <p>CPP Manual Kit: Set of accessories enable manual Cloud & Pour point testing, including test jars, cork insulations and stopper, set of ASTM thermometers</p> <p>Reference Materials: Wide range of CRM material for cold flow performance testing available from PAC</p>

SIMPLE, PRECISE CFPP TESTING

- Compact and portable; easily moves throughout your lab to area ideal for your unique workflow
- Testing begins in two steps—simply load sample and press *Test*
- Programmable cooling profile, vacuum profile and end of test conditions, allowing various standard and/or customized test methods
- Real-time display of test progress and results
- On-screen viewing of aspiration curves and down times
- Automatic in-situ cleaning with two solvents or according to method

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
- Instantaneous test initiation and jacket according to stepping or linear cooling profile
- Instrument configuration allows manual testing for cold behavior
Cloud & Pour point accessory kit is available for manual testing of these properties

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
- Compatible with other Windows-based applications
- 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

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

FOR ADDITIONAL INFORMATION

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