



ANOTHER DIMENSION



APPLICATIONS:

Volatility

PETROLEUM PRODUCTS
FOOD & BEVERAGES

AUTOMATED FLASH POINT Pensky Martens Closed Cup Tester

ADVANTAGES:

- **Simple 1-button test initiation**
- **Automatic lighting and monitoring of test flame**
- **Multiple safety features**
- **Choice of gas and/or electric ignition**
- **Locally stores up to 550 results in memory**
- **Statistical results analysis (AVE, MIN, MAX, SD)**
- **Stand-alone operation or multi-instrument networking with ALAN™**



FP93 5G2

With ISL's FP93 5G2 Automated Pensky Martens Closed Cup Tester, flash point testing has never been easier! Simply select from a list of pre-programmed testing conditions, then press the *Test* key. Test progress displays in real time on the easily viewable screen. The FP93 5G2's **extensive local data storage** is further supplemented by **LIMS export capabilities**, while the addition of ALAN™ enables multi-instrument networking with centralized operation control and data management. With cooling immediately initiated, the FP93 5G2 is ready to **begin another test in minutes**.

ISL offers multiple configurations to suit your unique testing preferences and needs: gas and/or electric ignition, thermal or ionization detection, and glass or metal sample temperature probe. **Choose from 20 standard and pre-programmed testing profiles**, including Pensky-Martens profiles, plus Tag and Abel flash point simulations. An optional test kit enables sub-ambient flash point testing.

Sophisticated quality control features—including traceable automatic calibrations with lock-out control, and automated quality verification—fulfill your ISO 9000 quality system requirements.

METHODS:

ASTM D 93 A & B
ISO 2719
EN 22719
IP 34
JIS K2265

ISL FP93 5G2 AUTOMATED PENSKY MARTENS

Maximum flexibility, precision, safety

SPECIFICATIONS	
Ordering Information	FP93 5G2 Automated Pensky Martens Flash Point Tester includes LCD display and alphanumeric keypad with dedicated function keys. Select from:
Detection	- thermal (standard) ionization ring (optional)
Ignition	- interchangeable gas/electric or electric only
Temperature Measurement	- glass (standard) or metal (optional) PT100 probe delivered with calibration certificate
Electrical	- 230VAC 50/60Hz or 115VAC 60 Hz
Test Methods	
Standard	ASTM D 93 A&B, ISO 2719, EN 22719, IP 34, JIS K2265
Customizable	User, Fast, Pass/Fail and Search methods
Operation	
Temperature Range	1°C to 370°C (-17° to 698°F)
Heating Rate	4 different heating rates, including fast pre-heat mode
Cooling	Built-in forced air
Password Security	Multi-level password protection
Calibration & Diagnostics	Automatic calibration with programmable frequency 21-point probe offset correction table Automatic diagnostic routines on analyzer functions Upload/download service features via PC
Documentation	
Data	Real time on-screen display of test progress; stores 550 tests, 20 sample specifications, 20 operator names and 20 different test methods
Statistics Reports	Computation of average, minimum & maximum values, and standard deviation
Data Input/Output	RS 232C and ALAN™ connections standard
Printer Output	Parallel (Centronics®)
Utility Requirements	
Electrical	115/230 VAC; 800 W; 50/60 Hz; conforms to CE
Gas (gas ignition only)	butane or propane source, 40 mbar maximum pressure
Dimensions	32cm W x 48cm D x 33cm H (13" x 20" x 13")
Weight	23 kg (51 lbs)
Operating Environment	15 to 35°C (60 to 95°F)
Optional Accessories	
ALAN™ Software	Automatic Laboratory Analyzer Network. Enables multi-analyzer networking with centralized operation and data management. Available as option.
Mini Test Kit	Includes mini test cup and special cover for flash point analyses using reduced sample size
Cooling Block	Enables sub-ambient testing
Draft Shield	Polymethacrylat shield protects flame from draft



UNPARALLELED VERSATILITY, ABSOLUTE SIMPLICITY

- Test initiated by selecting sample name from pre-programmed list
 - preset and programmable test methods: search, fast and pass/fail
 - programmable heating rate allows various heating combinations
- Real-time display during testing, viewable from 5 meters (16½ ft.)
- Multi-language user support
- Quickly configurable gas or electric ignition
- Automatically lights test flame and positions stirring device
- Tests samples containing water or silicone
- Optional cooling block enables sub-ambient testing
- Detachable cup cover and shutter simplify cleaning

POWERFUL PRECISION, ENHANCED QUALITY FEATURES

- Built-in sensor for automatic barometric pressure correction according to ASTM or ISO methods
- Automatic, time-recorded calibrations with lock-out control
- Provides warning message when result is out of specification

SAFE, DEPENDABLE OPERATION

- Endurance tested and proven for long-term operation
- Relights flame, if necessary, during operation and suppresses gas source at end of test
- Automatic fire detection system with external fire alarm connection
- Over-heating detection with automatic heat shut-off during test
- Expert sales and service from PAC's worldwide network of factory trained authorized representatives

OPTIONAL PC CONTROL & MULTI-INSTRUMENT NETWORKING

- Centralizes control and data management of up to 31 ISL ALANready™ cold behavior, distillation & flash point instruments
- 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

YOUR LOCAL REPRESENTATIVE:

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

FOR ADDITIONAL INFORMATION:

AMERICAS:

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