



OilLab 6000 - Leonardo Pensky Martens



LINETRONIC TECHNOLOGIES

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ASTM D93 procedures A, B, C
DIN EN 22719
IP 34
ISO 2719

Subject

Flash Point on petroleum products, gas oils, fuel oils, lubricants, biodiesel. Suitable for flash point detection on different substances, waste materials, solvents...

Measuring Pensky Martens Principle

The sample is heated and stirred at specified rates, using one of three defined procedures (A, B, or C). An ignition source is directed into the test cup at regular intervals with simultaneous interruption of the stirring, until a flash is detected.

Measuring Parameters

- Temperatures: in °C / °F
- Measuring range: 0°C ... +420°C
- Resolution: 0.01 °C
- Accuracy: ± 0.1 °C
- Repeatability / Reproducibility: as per standards methods or better

Measuring Temperature Devices

- Sample temperature: PT100 sensor completely made in stainless steel resistant to corrosion and shock resistant
- Bath temperature: PT100 sensor

Pressure sensor

- Built-in sensor with automatic correction of results to a barometric pressure of 101.3 kPa automatically performed by the software at the end of analysis

Detection system

- A single multi-detector combines the ionization detector and the thermal detector

Double ignition system

- Gas
- Electrical ignitor

Heater

- Electrical heating with heating rates as per procedures A, B, C

Stirrer

- An electric motor drives the stirring of the product
- Stirring speed as per selected procedures A, B, C

Cooling system

- Built-in forced air fan

Safety Devices

- Automatic diagnostic in case of breakage of the sample temperature probe and thermal sensors
- Automatic fire detection system
- Overheating protection with auto shut off during the test
- Gas valve for closing the gas supply (max 30 mBar), at the end of the test

Fire Extinguisher

- Automatic fire detection and extinguisher system

Software Features

- All analytical parameters recorded
- Customizable analysis parameters and methods
- Customizable results report
- Printable graphs and results

The software includes:

Analysis Menu

- Automatic execution of the analysis in accordance to the selected procedure (Standard method as per ASTM / IP / ISO / EN / DIN... norms of reference as well as customized procedures)
- Automatic handling of samples with unknown flash point
- Display in real time of all the analysis parameters and status





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- Fields for introduction of operator and product name
- Expected flash point temperature programmable
- Audible alarm and displayed messages at the end of the analysis and in case of errors and/or malfunctions
- Configuration menu with up to 20 preset samples and expected flash point
- Automatic barometric correction of results
Diagnostic Menu
- Direct access to all analog, digital, inputs and outputs
- Selectable value displaying:
°C / Volt
Calibration Menu
- Automatic calibration of each temperature probe
- Up to 100 calibration points (standard with 5 and dynamic with up to 100 points)
- Programmable calibration frequency with selectable validity period and notice/lock-down at expiration date
- Last calibration date referred to each single probe displayed and relevant data printable
- Display of calibration diagram
Data Utilities
- Archive viewer for files recall
- All analysis stored in Excel® compatible format
- LIMS compatible

Integrated Touch Screen Panel PC

- TFT/LCD 8.4"
- Resolution 1024 × 768, 16.2 M colours
- 2 × USB ports for connection to an external printer
- 1 × ethernet port for LAN and LIMS network
- Storage capacity for more than 65'000 analysis

Electrical Supply

- 220V ± 15% / 50 to 60 Hz
- 115V ± 15% / 60 Hz

Ambient Temperature

- Max 35°C
- H.R. 80%

Dimensions

- width 37 cm
- depth 52 cm
- height 32 cm

Weight

- 30 Kg

Accessories / Spare Parts

- LAB-6000/05-23: heater collar
- LAB-6000/06-21: gas valve
- LAB-6000/07-01: electrical ignitor
- LAB-6000/07-03: micro switch
- LAB-6000/07-04: handle
- LAB-6000/07-05: gas ignitor
- LAB-6000/08-12: PT100 product
- LAB-6000/08-13: detection / ionisation cable
- LAB-6000/08-14: PT100 Bath
- LAB-6000/09-04: gas reducer
- LAB-6000/09-05: calibrated brass crucible
- LAB-6000/10-04: PCB fuses, box of 10
- LAB-6000/11-02: stirrer belt
- LAB-6000-118: fire extinguisher system

Calibration Tools

- OilLab 80: calibration decade box – PT100 simulator
- OilLab 91: set of connectors and cables for OilLab 6000