OilLab 690 Tag

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CE

ASTM D56
ASTM D3278
ASTM D3934
ASTM D3941
IP 304
IP 491
IP 492
ISO 1516
ISO 1523
ISO 3679

Subject

Flash point on petroleum products having a flash point between ambient temperature and +93°C. Suitable for flash point detection on different substances and (NO) waste materials, solvents…

Measuring Tag Principle

The sample is warmed up according to the methods. When the sample reaches the selected test temperature, the shutter is opened and the ignition system introduces itself automatically. If the flash point is reached, the detection is done by an ionisation detector. If not, the shutter closes again and the sample continues to warm up until the next test temperature.

Measuring Tag Devices

- Measurement of the Flash Point detected by an ionisation detector
- Testing unit equipped with two ignition systems
- Electrical system or flame exposure device
- Built-in barometric sensor with automatic barometric correction of results executed by the software

Measuring Temperature Probe

- Platinum resistance PT100 class A

Measuring Parameters

- Temperatures: in °C
- Measuring range: -50°C … +100°C
- Testing range: +9°C … +93°C as per test methods
- Resolution: 0.06 °C
- Accuracy: ± 0.1 °C
- Repeatability / Reproducibility: as per standards methods or better

Software Features

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

The software includes:

Analysis Menu

- Standard method as per ASTM / IP / ISO / EN / DIN… norms of reference
- Unknow sample
- Audible alarm and displayed messages at the end of the analysis and in case of errors and/or malfunction

Diagnostic Menu

- Direct access to all analog, digital, inputs and outputs
- Selectable value displaying: °C / Volt

Calibration Menu

- Automatic calibration of each temperature probe
- Last calibration date referred to each single probe displayed and relative data printable
- Display of calibration diagram
- Insertion of offset values
- Standard and advanced calibration modes

Data Utilities

- Fields for introduction of operator and product name
- Archive viewer for files recall
- All analysis stored in Excel® compatible format
- LIMS compatible

Integrated Touch Screen Panel PC

- TFT/LCD 8”
- Resolution 1024 × 768, 16.2 M colours
- 2 USB ports for connection to an external printer and/or external PC
- Storage capacity for more than 60’000 analysis

Test Cup

- The cup is made of chromium plated brass provided with high temperature resistant handle
- Sample level mark

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Heating
- Electrical heater
- Equipped with over temperature cut-out

Cooling System
- Integrated high-tech Peltier cooling system

Ignition system
- Gas or electric lighter

Shutter
- Automatic mechanism opening the shutter conform to the methods

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

Cord Cable:
- 3 conductors flexible cable with schuko plug

Ambient Temperature
- Max 35°C
- H.R. 80%

Dimensions
- width 48 cm
- depth 37 cm
- height 61 cm

Weight
- 32 Kg

Spare Parts
- LAB-690/05-13: heater
- LAB-690/05-16: PT100 bath
- LAB-690/06-21: gas valve
- LAB-690/07-01: electrical ignitor
- LAB-690/07-03: micro switch
- LAB-690/07-04: handle
- LAB-690/07-05: gas ignitor
- LAB-690/08-12: PT100 product
- LAB-690/08-13: detection / ionisation cable
- LAB-690/09-04: gas reducer
- LAB-690/09-05: calibrated brass crucible
- LAB-690/09-06: calibrated brass crucible complete with movement
- LAB-690/09-07: cover cup movement only
- LAB-690/10-04: PCB fuses, box of 10
- LAB-690/10-05: main electronic board
- LAB-690/11-01: silicon tubing, 1 meter
- LAB-690/12-01: voltage transformer for ignitor
- LAB-690/20-01: support PT100 Teflon

Calibration Tools
- OilLab 80: calibration decade box – PT100 simulator
- OilLab 81: set of connectors and cables for cold range