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**Product Name :**  
Automatic Smoke Point Apparatus

**Product Code :**  
SCHOOL-FLE910007



**Description :**

Automatic Smoke Point Apparatus

**Technical Specification :**

This unique automated instrument uses a patented system based on a video camera that measures the flame. The flame image is digitalized. The dedicated software determines the height of the flame when its shape corresponds to the one described in the test method. This specific flame is the one with the maximum height without smoke generation. The SP10 performs three determinations of the flame heights and reports the average value in strict accordance with the test method. The results are saved in an internal database and can be printed, transferred to a USB memory stick and/or sent to a LIMS. Every test is fully documented and traceable, which is imperative for aviation industry quality procedures.

The Automated Smoke Point instrument that strictly follows the test method while both eliminating the subjectivity inherent to the manual test and significantly improving repeatability and reproducibility. Additionally, the SP10 eliminates all safety risks linked to the visual observation of an open flame. The test can now be run unattended which drastically reduces labor costs.

**Technical Points :**

Test duration: Less than 10 minutes

Resolution (flame height): 0.1 mm

Parameters saved with a test result: Smoke point in 0.1 mm (according to selected test method), Sample

type, Sample ID, Date and Time, Barometric pressure, Operator name, Test method, Calibration information, Instrument serial number, Software version

Results storage: Up to 100 000 results

LAN connectivity: Ethernet port RJ45

Printer output: Serial port (printer is optional)

Data output: USB(2), Ethernet

Weight: 10kg (22lb)

Electrical: 112 to 230V – 2A – 50/60Hz

Repeatability and Reproducibility :

$r=0.6$  and  $R=0.9$

Four times better than manual test method ( $r=2.8$  and  $R=3.8$ )

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**School Educational Instruments**

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