

MINIFLASH FP VISION

Industry 4.0-ready flash point analyzer

MINIFLASH FP VISION is part of Grabner Instruments Vision analyzer family. The flash point tester MINIFLASH FP Vision combines the field-proven advantages of Grabner analyzers with a convenient touch-screen design. The Industry 4.0-ready instrument fully integrates with enterprise level networks and the COCKPIT™ Software for Vision analyzer.

KEY FEATURES

Advanced Flash Point Methods

Measurements in accordance with the safest flash point methods ASTM D6450 and D7094. Results are rated equivalent to ASTM D93/ISO 2719 Pensky Martens method and are in excellent correlation with ASTM D56, ISO 13736, and IP 170. Also available are methods for simulation of ISO 3679 and ISO 3680 testing, fuel dilution measurement for used oil analysis, and fast screening programs.

OFFICIAL ASTM FLASHPOINT COMMITTEE STATEMENT

"There is no statistically significant bias observed between ASTM D7094 and ASTM D93 Procedure A."

• Combustion Analysis

Samples with small concentrations of flammable compounds sometimes do not show a definite flash point. MINI-FLASH FP Vision detects the smallest flash point and displays the sample contamination graphically.

• Advanced Peltier Cooling Technology

For a quick sample turnaround and extended instrument life, Grabner Instruments developed fast thermoelectric regulation of heating and cooling.

- The FP Vision uses the latest double Peltier cooling technology for fastest cooling cycle times.
- The FPH Vision uses the patented cooling block technology and the latest generation of double Peltier elements to ensure fastest cooling cycle times.

• Automatic Ignition Cleaning Program

This method removes tenacious residuals from the ignition system.

Maximum Safety

Ignition Protection Technology is intrinsic to the MINIFLASH design.



Only 1-2 ml of samples are required for testing - without an open flame! The continuously closed cup design, automatic explosion probing and a controlled air feed protect against fire and offensive fumes. The automatic sample intake drawer ensures unmatched safety and highest comfort.

• Ease of Use

MINIFLASH FP Vision features intuitive menu navigation, no training is required. Hassle free communication with USB, LAN, LIMS and PC is assured.

• Access. Anywhere. Anytime.

MINIFLASH FP Vision supports
COCKPIT™ Software. Lab managers
can use the software to gather on-site
measurements and statistics in a
central database and bridge the gap
between the lab and the field. With the
COCKPIT™ SQC version, accuracy,
precision and stability tests according
to ASTM D6299 are also available.



AVAILABLE METHODS

- ASTM D6450 (SHT0768) & D7094
- Excellent correlation to Pensky Martens Method - ASTM D93, ISO 2719, DIN 51758, IP 34, JIS K 2265 TAG Closed Cup Method - ASTM D56 Abel Closed Cup - ISO 13736, IP 170
- Excellent correlation to equilibrium and
- small scale methods EN ISO 3679/3680, ASTM D3828 A/B, IP 523/IP 524
- Fuel dilution flash point testing
- Flash / No flash methods
- Fast screening methods
- Customized methods for higher flexibility in flash point testing

MINIFLASH TESTER LINE

- Maximum safety with continuously closed cup technology
- No open flame, no hazardous vapors
- 1-2 ml sample size
- Automatic stand-alone operation
- Fast and accurate
- Easy to use, easy to clean

- Electric arc ignition
- Portable for field use
- US D.O.T, RCRA, NAVY, NATO approved
- Approved for various ASTM specifications for fuels and oils
- Worldwide market leader for the flavors and fragrance industry

KEY FEATURES

- Intuitive menu navigation on 10" color touch-screen
- Full network, PC and LIMS integration via LAN
- USB printer support and data transfer
- Digital manual reading and export
- Extended temperature range
- User rights management with COCKPIT™ Software

- Unlimited number of methods and results
- Automatic ignition cleaning program
- Automatic sample loading and ejection



Advanced Peltier Cooling Technology

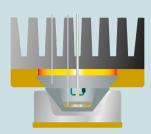


Ignition Protection Technology



Combustion Analysis

TECHNICAL DATA



Principle of Operation

Temperature Range	FP Vision: • 0 to 120°C (32 to 248°F) without cooling • Down to -25°C (-13°F) with water cooling FPH Vision: • 10 to 400°C (50 to 752°F)
Temperature Stability	FP Vision: +/- 0.05°C (0.09 °F)
	FPH Vision: +/- 0.07 °C (0.13 °F)
Sample Volume	1 ml (ASTM D6450) or 2 ml (ASTM D7094)
Fast Sample Throughput	Up to 16 samples/hour, depending on method
Interfaces	4x USB, 2x LAN
Remote Control	Remote Control via COCKPIT™ Software for Vision analyzers
Power Supply	100/110/120/230/240 V AC, 50/60 Hz, max. 180W (optional car adapter for field use)
Dimensions (WxHxD)	253 x 368 x 277 mm (10 x 14.5 x 10.9 inch)
Weight	10.2-11.2kg (22.4-lb)

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