Anton Paar

Next-Generation Flash Point Testing:

Pensky-Martens Closed-Cup Flash Point Tester Series

PMA 500 and PMA 300

The PMA 500/300 series is a first-class solution for automatic, high-precision Pensky-Martens flash point testing in the petroleum, chemical, and fragrance industries, and for test laboratories.

FIND OUT MORE

www.anton-paar.com/apb-pma

The PMA 500/300 series is a closed-cup flash point tester equipped with premium technology and a modern design. The top-performing instrument determines expected flash points from above ambient temperature up to 410 °C (PMA 500) and 370 °C (PMA 300), respectively. It guarantees straightforward, automated handling, maximum safety, and unrivaled usability in combination with a self-explanatory user interface.

Full compliance
ASTM D93, EN ISO 2719, IP 34, JIS K2265-3, GB/T261

Highlights

- → Electric igniter with patented design and ceramic coatings: 10x longer lifetime than of competitor instruments, eliminating costly downtimes and high running costs
- → PMA 500's high-power cooling performance gets you ready for the next test 20 % faster than any other instrument on the market
- → Smartphone-like, intuitive user interface
- → Top-level safety: fail-safe fire detection system, combined with fire extinguisher
- → Integrated automatic motor-driven multi-function head guaranteeing secure, smooth connection of sensors and actuators such as a stirrer, multi-detector, and igniter
- → Rugged metal and intelligent Pt100 probe with built-in calibration; 12 calibration points for a wide range of samples

	PMA 300 ↓	**PMA 500** ↓
Temperature range	From above ambient temperature to 370 °C	From above ambient temperature to 410 °C
Ignition type	Electric (encapsulated hot wire)	Electric (encapsulated hot wire) Optional gas ignition
Cooling after measurement	Standard cooling	Boost mode
Barometric pressure correction	Flash point is automatically corrected to barometric pressure	
Flash detection	Automatic detection by thermoelement	
Sample temperature	Automatic by Pt100	
Safety	- Automatic fire-extinguishing system in combination with a unique optical fire detection system - Overheat protection, automatic shut-off | Detects a "flash" outside the cup	- Automatic fire-extinguishing system in combination with a unique optical fire detection system - Overheat protection, automatic shut-off | Detects a "flash" outside the cup - User management with different access levels
Calibration	Calibration of sample and block temperature, stirrer speed, and internal barometer	
Memory	1 GB space for approx. 50,000 tests and 1,000 users	
Interfaces	2 × USB, 1 × LAN	4 × USB, 1 × LAN
Power supply	AC 100 V - 120 V, 50/60 Hz, AC 220 V - 240 V, 50/60 Hz	
Heating power	2 × 330 W	
Gas supply	Integrated fire extinguisher: CO_2 or N_2 inert gas; inlet pressure 400 kPa to 500 kPa	Integrated fire extinguisher: CO_2 or N_2 inert gas; inlet pressure 400 kPa to 500 kPa Optional gas ignition: 50 mbar of propane or butane
Dimensions	262 mm × 506 mm × 486 mm	
Weight	Ca. 15 kg	