

PMI-MASTER Smart

PMI-MASTER Smart:

- Height: 235 mm (9.3").
- Width: 410 mm (16.1").
- Depth: 425 mm (16.7").
- Weight: 15 kg (33 lbs).
- Power: 28.8 V DC.
- Max consumption: 500 W.
- Stand by: 25 W.

Optical system:

- Flat field Multi-CCD optics.
- Focal length: ca. 300 mm.
- Reciprocal dispersion: 1.75 nm/mm (1st order).
- Wavelength range: 185 - 420 nm.
- Peak coverage: up to 671 nm (for Cu, Na, Li).

Excitation source (solid state):

- Computer controlled parameters
- Max. pulse current: 110 A Arc current: 1.8 - 2.5A.
- Max. pulse energy: 0.40 Joule.
- Max. pulse duration: 120 μ s.
- Frequency: 100 - 350 Hz.
- Voltage: 250 - 350 V.
- High Energy Pre SPARK (HEPS).

Battery:

- Technology: LiFePO₄.
- SPARK measurements: up to 300 (using standard parameters).
- ARC measurements: up to 200 (using standard parameters).

Probe:

- UVTouch probe to analyse UV elements and low carbon content.
- On-probe touch display for instrument control and convenient analysis.
- Detachable probe unit.
- Jet-Stream technology.
- Weight: 2 kg (4.4 lbs).
- Cable length: 3 m (ca. 9 ft 10").
- Wavelength range: 165 - 210 nm in probe optics.



Computer system:

Internal computer unit using up-to-date technology with Microsoft® Windows® and touch screen user interface.

Options:

- Spark probe (3 m cable length; fits into stackable case).
- Arc probe (3 m cable length with fixed adapter; fits into case).
- Probes >3 m cable available (do not fit into stackable case).
- Foldable trolley for transportation cases.
- Cart to accommodate PMI-Master Smart, probe, 10l Argon cylinder and accessories/tools.
- External keyboard, mouse, printer.
- Spare parts kits.

Typical applications:

- Steel alloys.
- L grade segregation in stainless steel.
- N*, C, P*, S*, Sn*, As*, B* analysis in steel.
- Al alloys ~ Al-Si ~ Al-Si-Cu.
- Cu-Sn ~ Cu-Zn.
- Cu, Ni, Zn, Co, Mg, Pb, Sn and Ti alloys.

*With UVTouch probe



UVTouch probe in stackable case