

OXFORD

PMI-MASTER Pro2

Cordless mobile metals analysis



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INSTRUMENTS

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PMI-MASTER Pro2

Mobile identification of materials

New!
Improved analytical
performance with new
CCD readout design



Cordless, robust, efficient

Seamless quality control is essential in the metal production industry at multiple stages of production. These include analysis of tramp elements in scrap metal, inspection of incoming materials, final QA / QC inspection of outgoing goods and safety-critical positive material identification on-site. But very often it is easier to bring the analysis to the samples, for e.g. plants, material stores or spacious finished product.

The **PMI-MASTER** Pro2 is the ideal instrument for metal processing companies looking for a mobile and robust metals analyser for demanding industrial applications. This second generation optical emission spectrometer (OES) offers extraordinary long battery life and superior precision of results with the new CCD readout design.

Cordless operation with powerful battery

Three different power supplies are available:

- Cart with integrated 24 V power pack for 8 hours of remote operation allowing 800 measurements
- Small battery module – approximately 2 hours of portable use
- Main power module without any battery for benchtop operation

Highlights

- Perfect mobility
- Extremely long-life battery
- Immediately ready to use
- Lightweight probes
- Up to 10 m probe cable
- Easy-to-use
- Low maintenance costs

Typical applications

- Fe: alloys such as cast-iron, steel, etc.
- L grade segregation in stainless steel
- P* and S* analysis in steel, N* analysis in duplex steel
- Al: alloys such as die-cast alloys
- Cu: bronze, brass, CuNi alloys, etc.
- Ni: hastelloy / inconel / monel, etc.
- Mg, Co, Ti, Pb, Sn, Zn alloys, etc.

*with optional **UV**Touch probe

Industries

- Metallurgical manufacturing
- Oil refineries
- Petrochemical and chemical
- Aviation
- Power plants
- Scrap sorting

Where high performance is required

Fast on-site and laboratory testing

Analysis of
Carbon, Phosphorus,
Sulphur, Boron, Tin,
Arsenic, Nitrogen*
*in duplex steel



UVTouch probe

Smart probe: UVTouch

- Results immediately available on touch screen
- Remote control of main spectrometer functions
- 10 m cable to reach any spot of analysis



Spark probe



Arc probe



Combi probe

Rubber seal for concave or convex surfaces



Adapter for wires



Analysis of almost any sample

The concentric electrode shielding Argon flow technology reduces air gaps and optimises the gas flow, meaning that the argon consumption is remarkably low. The **PMI-MASTER Pro2** can analyse

- samples with complex shapes and irregular geometries,
- wires (min. 1 mm thin) with universal adapter,
- concave and convex surfaces (pipes, rods, valves, welding seams, joints, storage tanks, turbines).

Integrated GRADE Database included

The **PMI-MASTER Pro2** is delivered with the largest metals database for fast and easy grade identification installed. It offers more than 8 million records for over 220,000 materials from 67 countries and standards. You can update your instrument's grade database with a few clicks – no time consuming research in norms and grade catalogues.

Technical specifications

Height / width / depth	360 mm	575 mm	370 mm
Weight / battery / cart	25 kg	13 kg	80 kg
Power / operating / standby	24 V DC	500 W	40 W

Optical System

Multi-CCD	Paschen-Runge mounting		
Wavelength range	165 - 420 nm (with UVTouch)		
Focal length	350 mm		

Battery

Spark measurements	Up to 800 (with battery cart)		
Arc measurements	Up to 500 (with battery cart)		

Probe (optional): Arc / spark / combi / **UVTouch**

Multifunctional arc / spark / combi adapter head with LEDs for pass / fail sorting			
Weight arc / spark / combi	1 kg	1 kg	1.5 kg
Cable length	4 m / 8 m		
UVTouch	Low C, P, S, SN, As, B in steel, N in duplex steel, up to 10 m cable length, 2 kg weight		

Software & User Interface

Internal computer unit, Microsoft® Windows®, touch screen user interface
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Options

Arc probe	Adapters	Sample preparation devices
Spark probe	Spare parts kit	Uninterruptable power supply
Combi probe	Consumables kit	Keyboard, mouse
UVTouch probe	Printer	Transportation unit

OiService

Our global network of service hubs provides a full range of technical support:

- Telephone help-desk
- On-line diagnostics
- Rental instruments
- Maintenance
- Training
- Extended warranty
- Consumables and accessories
- Repair service

Please ask about details of our comprehensive range of products or visit our website at:

www.oxford-instruments.com/ia-customerservice

Visit www.oxford-instruments.com/pmi-master-pro for more information or contact industrial@oxinst.com

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