

PMI-MASTER PRO

Fast and reliable metal-analysis

The completely revamped spectrometer offers additional functions and improved analytical capability in a compact and sturdy construction.

Apart from the new excitation-electronics, which guarantee a superior precision and constancy in both Arc and Spark results, the energy management of the instrument was also enhanced for mobile use.

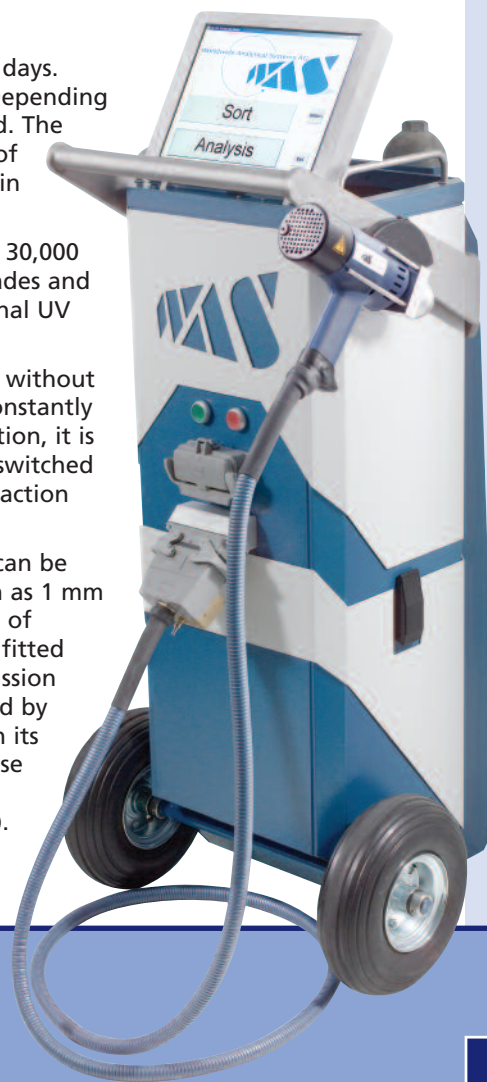
The 24 volt power supply is designed to guarantee independence from mains power over a number of days. Operation is via a 12.1 inch touch-screen monitor. Depending on the use, the monitor can be individually adjusted. The pluggable module can also be used independently of the transportation unit, making it easy to use even in difficult to access locations.

Thanks to the multi CCDs Optical-system with up to 30,000 channels, material tests on all standard material grades and chemical elements can be executed. With the optional UV probe assessing P and S in Steel is unproblematic.

The optical system is fully re-adjusted automatically without any interaction by the operator. As this process is constantly preformed in the background during normal operation, it is not necessary to acclimatize the instrument. When switched on, the **PMI-MASTER PRO** is immediately ready for action with no warm-up phase.

Due to the WAS Jet-Stream Technology; the probe can be used on the most complex shapes, even wire as thin as 1 mm can be accurately measured without the added cost of specialized and expensive adapters. Our probes are fitted with HPC fibre-optic cable. This special high transmission Quartz-fibre is not prone to decay (blindness) caused by the effects of solarisation and is therefore unique in its stability and durability. This uniqueness allows precise measurement of the minutest trace of carbon (i.e., in low carbonized stainless steel 1.4404/1.4306).

- Perfect mobility due to battery-power, the transportation unit and the ample length of the probe-heads flexible tube
- A versatile analytical-system in spite of its compact construction
- Precise analysis and material identification with quality detection
- Jet-Stream Technology permits prompt measurement on all shapes and forms



OXFORD
INSTRUMENTS

The Business of Science®



- Precise analysis, quick grade ID and sorting
- Battery function
- Jet-Stream Technology
- High Performance Carbon Fibre
- Input via Touch-Screen



**Oxford Instruments
Industrial Analysis**

industrial@oxinst.com

UK

High Wycombe
Tel: +44 (0) 1494 442255
Fax: +44 (0) 1494 524129

China

Shanghai
Tel: +86 21 6132 9688
Fax: +86 21 6360 8535

Finland

Espoo
Tel: +358 9 329 411
Fax: +358 9 3294 1300

Germany

Uedem
Tel: +49 (0) 2825 93 83 -0
Fax: +49 (0) 2825 93 83 -100

Latin America

Clearwater FL
Tel: +1 727 538 7702
Fax +1 727 538 4205

Singapore

Tel: +65 6337 6848
Fax: +65 6337 6286

North America

Concord MA
TOLLFREE: +1 800 447 4717
Tel: +1 978 369 9933
Fax: +1 978 369 8287

www.oxford-instruments.com



Technical Data

Height	500 mm (19,8")
Width	360 mm (14,2")
Depth	320 mm (12,6")
Weight	17 kg (37,5 lbs)
Mains Power	100-250 V (50/60 Hz)
Battery Power	24 V

Options

- UV-PRO optic for measuring UV-Elements
- Wire-adapter.set
- Sample preparation devices
- Spare parts kit
- Consumables kit

Typical Applications

- Fe alloy
- L grade segregation in Stainless-steel
- P. and S. analysis in Stainless-steel
- Al alloy ~ Al-Si ~ Al-Si-Cu.
- Cu-Mg ~ Cu-Zn ~ Cu-Ni.
- Mg, Cu, Ti, Zn, alloys....

Optical System

Multi CCD optical-system	
Resolution CCD	6 Pico-meter
Reciprocal dispersion	0,9 nm/mm (1st order)
Focal length	350 mm
Wavelength	185 – 420 nm
Excitation unit	Digital semiconductor technology
Arc excitation	Max 3 Amp
Spark excitation	Max 400 V / 300 Hz / 6 µF
Probe	Arc/Spark WAS Jet-Stream Technology HPC fibre-optic cable.
Tube length	4 m (13'3")
Probe Weight	800 g (1.8 lbs)

Readout System

Internal PC- incorporating up-to-date technology

We put the spark in Spectrometry

Click onto **www.oxford-instruments.com** for more information

Oxford Instruments, at High Wycombe, UK, operates Quality Management Systems approved to the requirements of BS EN ISO 9001. This publication is the copyright of Oxford Instruments Analytical Limited and provides outline information only which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. Oxford Instruments' policy is one of continued improvement. The company reserves the right to alter, without notice, the specification, design or conditions of supply of any product or service. Oxford Instruments acknowledges all trade marks and registrations.

© Oxford Instruments Analytical Ltd, 2009. All rights reserved.



Certificate No FM29142

Part no: OIIA/033/B/0509