

SPECTROTEST

TXC03



Mobile Metal Analyzer

Highest Analytical Performance and Maximum Sample Throughput

SPECTROTEST – Mobile Metal Analyzer

The verification or identification of metal, based on defined chemical composition specifications (grades), has established itself as a standard process in the repertoire of quality control measures at innumerable companies in the metal producing, processing and recycling industries. The use of an onsite metal analyzer is a highly reliable method to prevent grade mix-ups of incoming materials on the production floor, at the shipping dock or when sorting metals for value optimized recycling. The SPECTROTEST is ideal for these applications. It flaunts its superior performance especially when exact analyses are required, when materials are difficult to identify or when there is a large number of samples to be tested.

The complex instrument design offers many ergonomic advantages for safe and fatigue-free onsite operation. With a combination of freely supported front wheels and large, fixed rear wheels, SPECTROTEST is always stable and easy to move even along uneven terrain. The locking brake can be comfortably operated with one foot. The light, thin probe is quickly converted between arc excitation and spark excitation (under a protective argon atmosphere). A probe with an integrated UV optic is available for special measuring applications; in its newest version it can also be utilized with arc excitation.

The SPECTROTEST is even able to identify low alloy steel with the carbon content during the rapid arc excitation mode. In spark mode, the analysis of carbon phosphorous and sulfur belong to the possible applications in addition to the identification of duplex steels using the nitrogen content.

The proven ICAL (Intelligent Calibration Logic) logic system monitors the correct state of the measuring system independently from external influences. This eliminates time-consuming recalibration of the spectrometer. Instead, a single control sample is measured.



The SPECTROTEST at a Glance



Freely accessible argon bottle for rapid replacement

Robust lightweight transport trolley (weight reduction of 50%)

Stable aluminum instrument housing with recessed grips

Efficient plasma generator (high sample throughput during battery operation)

Large wheels and high clearance for easy onsite maneuverability, locking brake



Newly developed UV test probe (arc/spark operation) with 20% weight reduction

Integrated PC with LAN, USB, VGA and WLAN connectivity



Large 15" display

Shelf for ICAL sample: Unique one sample standardization of the entire system

Instrument software with complete operator guidance
Pre-installed materials library with common alloys that can be extended by the customer at any time
Optionally: SPECTRO Metal Database

Pluggable probe for shortest measuring times beginning with 2 s in arc mode and 5 s in spark mode (argon atmosphere)



Electrode/adaptor changeable without tools

Drawer for battery operation; battery capacity sufficient for hundreds of measurements



GERMANY

SPECTRO Analytical Instruments GmbH
Boschstrasse 10
D-47533 Kleve
Tel.: +49.2821.892.2102
Fax: +49.2821.892.2202
spectro.sales@ametek.com

U.S.A.

SPECTRO Analytical Instruments Inc.
91 McKee Drive
Mahwah, NJ 07430
Tel.: +1.800.548.5809
+1.201.642.3000
Fax: +1.201.642.3091
spectro-usa.sales@ametek.com

HONG KONG (Asia-Pacific)

AMETEK, Inc. SPECTRO Analytical
Instruments (Asia-Pacific) Ltd.
Unit 1603, 16/F, Tower III, Enterprise Square
No. 9 Sheung Yuet Road
Kowloon Bay, Kowloon
Tel.: +852.2976.9162
Fax: +852.2976.9542
spectro-ap.sales@ametek.com



The SPECTROTEST software is oriented towards the operator's tasks and, depending on the situation, displays the required information on one screen page that can also be read from a large distance. The new Result Manager is available to process measurement data.



Organizations with high volumes of work must keep their fleets of instruments operating at the highest possible levels of availability. To ensure that SPECTROTEST spectrometers meet and exceed these goals, SPECTRO offers the AMECARE Performance Services program. More than 100 AMECARE service engineers based in 20 countries help to ensure peak performance and extended useful equipment life via high-value, customized services. These can include proactive maintenance programs; application solutions; access to relevant experts; and training.

SPECTROTEST

Scope of Delivery

- Spectrometer unit with high resolution CCD multi-detector optic, fully digital plasma generator as the excitation source, high performance readout system and integrated PC, Windows 7 Professional
- Pluggable probe with pluggable probe adapter*
- Starter kit with maintenance and consumable parts as well as the ICAL sample
- Pluggable UV probe with pluggable probe adapter*
- Impact resistant lightweight transport trolley with locking brake*
- Printer*
- Battery pack*
- SPECTRO Metal Database*

Technical Details

- Instrument height: 670 mm (26.4")
- Width: 425 mm (16.7")
- Depth: 330 mm (13")
- Weight: 33 kg (72.6 lbs)
- 100-240 V, $\pm 10\%$, 50/60 Hz
- 320 W during analysis
- 60 W in stand-by mode
- Fuse: 16 A slow-blow
- Battery operation*

* Optional