

Flyer OES 001

Q2 ION

- Ultra-Compact Spark-OES Metals Analyzer

Bruker Elemental's all-new spark spectrometer Q2 ION elevates metals analysis to new levels of simplicity and ease-of-use. Today Q2 ION is the smallest and lightest ultra-compact spark emission spectrometer for metals analysis available. It is a versatile multi-matrix system for comprehensive incoming material inspection and quality assurance of metal alloys. Its affordable price and low operational costs make it the ideal tool for small- and medium-size businesses.

Q2 ION analyzes all major alloying elements in applications such as ferrous alloys, aluminium, copper, and many more. It perfectly fits the require-

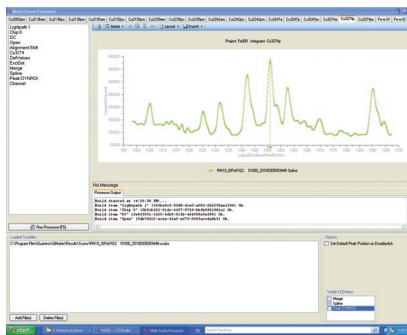
ments of foundries, metal processing plants, fabricators, quality control departments, warehouses, metal recyclers, and even inspection companies.

Q2 ION - Metals Analysis Made Easy

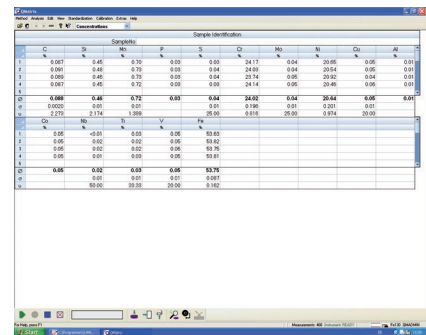
Its design makes Q2 ION ultra light (less than 44 lbs/20 kg) so it can easily be handcarried even to a nearby site for analysis. An optional case is also available. Despite its low weight, it is suitable for applications in rugged environments. Q2 ION also defines new standards in ease-of-use. Place your sample onto the spark stand and press the start button. In less than thirty seconds you get the complete elemental composition of your metal.

Q2 ION - Patented Optical System

The new patented Flat Field CCD optics is a masterpiece of optics design and mechanical engineering. Active Ambient Compensation (AAC) provides maximum stability in a temperature range between 10 and 45° C (50 and 113° F). The high-definition CCD detector together with well-proven ClearSpectrum® technology provide best-in-class analytical performance.



Detector with ClearSpectrumTechnology



Typical Analysis Screen

Technical Specifications

Patented Optical System	<ul style="list-style-type: none"> Un-coated CCD detector with lowest dark current Flat field grating Full spectrum coverage: 170 - 411 nm (685 nm) Resolution: 30 pm Argon purged for best transparency ClearSpectrum® technology for advanced spectra deconvolution Active Ambient Compensation (AAC) for operation between 10 and 45°C (50 and 113°F)
Analytical Solution Packages (ASPs)	<ul style="list-style-type: none"> Different matrix calibration packages available ASPs cover all major elements and alloy groups Upgradable for future expansion
Source Generator	<ul style="list-style-type: none"> Maintenance-free, two phase PWM generator Frequency 50 to 1000 Hz Spark and arc-like discharges from 10 µs to 2 ms
Sparkstand	<ul style="list-style-type: none"> Nearly maintenance-free Argon consumption 2.5 l/min. during measurement Argon quality 4.8 specified for spectrometry or better
Software	<ul style="list-style-type: none"> Intuitive Windows® based software for simple routine operation Various user levels for secure and task-specific operations Functions for qualitative and quantitative analysis Elemental Suite Software including analysis database and interfaces to Office software Grade Library functions
Electrical Data	<ul style="list-style-type: none"> 100 to 240 V (50/60 Hz) 200 W during measurement, 50 W during standby 16 A (240 V) or 25 A (100 V) slow blow fuse
Dimensions and Weight	<ul style="list-style-type: none"> Width 440 mm (17 in.) Height 220 mm (9 in.) Depth 390 mm (15 in.) Weight ~ 19 kg (~ 42 lbs.)
Temperature	<ul style="list-style-type: none"> Temperature 0 - 45°C (50 -113°F) Humidity 10- 90 % no condensation
Options	<ul style="list-style-type: none"> Wire adapter, tube adapter Sample preparation Carrying case Notebook, Desktop, or All-in-One Touch PC

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