

## Q2 ION

- Ultra-Compact Spark-OES Metals Analyzer

Bruker's spark spectrometer Q2 ION elevates metals analysis to new levels of simplicity and ease-of-use. The 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 a small- and medium-size business.

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

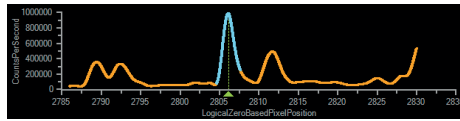
ments of foundries, metal processing plants, fabricators, quality control departments, warehouses, metal recyclers, and even inspection companies.

### **Q2 ION – Metals analysis made easy**

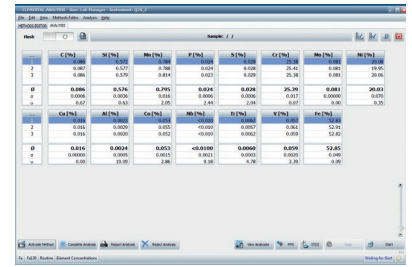
Its design makes the Q2 ION ultra light so it can easily be handcarried even to a nearby site for analysis. An optional case is also available. Despite its low weight, it is suitable for applications in rugged environments. Q2 ION also defines new standards in ease-of-use. Place your sample onto the 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 ClearSpectrum technology




Typical Analysis Screen

## Technical Data

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| <b>Optical System</b>                      | Un-coated CCD detector with lowest dark current<br>Flat field grating<br>Argon purged for best transparency<br>ClearSpectrum technology for advanced spectra deconvolution<br>Active Ambient Compensation (AAC) for operation between 10 and 45 °C (50 and 113 °F) |
| <b>Source Generator</b>                    | Maintenance-free, two phase PWM generator<br>Frequency 50 to 1000 Hz<br>Spark and arc-like discharges from 10 µs to 2 ms   |
| <b>Sparkstand</b>                          | Nearly maintenance-free<br>Low Argon consumption during measurement<br>Argon quality 4.8 specified for spectrometry or better  |
| <b>ELEMENTAL.SUITE</b>                     | Intuitive Windows® based software for simple routine operation<br>Various user levels for secure and task-specific operations<br>ELEMENTAL.SUITE software including analysis database and interfaces to MS Office<br>Grade Library functions                       |
| <b>Analytical Solution Packages (ASPs)</b> | Different matrix calibration packages available<br>ASPs cover all major elements and alloy groups<br>Upgradable for future expansion   |
| <b>Electrical Data</b>                     | 100 to 240 V (50/60 Hz)<br>200 W during measurement, 50 W during standby<br>16 A (240 V) or 25 A (100 V) slow blow fuse  |
| <b>Dimensions &amp; Weight</b>             | Width 440 mm (17 inch)<br>Height 220 mm (9 inch)<br>Depth 390 mm (15 inch)<br>Weight ~ 19 kg (~ 42 lbs)  |
| <b>Environmental Range</b>                 | Temperature 10 - 45 °C (50 - 113 °F)<br>Humidity 10 - 90 %, no condensation  |
| <b>Options</b>                             | Wire adapter, tube adapter<br>Sample preparation<br>Carrying case<br>Notebook or desktop PC  |

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