



• **Q2 ION** Ultra-Compact Spark-OES Metals Analyzer

The new generation of Bruker Elemental's spark spectrometer Q2 ION elevates metal analysis into 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 material inspection and quality assurance of metal alloys. Its primary applications and metal matrices include copper, aluminum and iron at smaller foundries, inspection companies, metal recycling and metal fabricators. An affordable price and low operational costs make this spectrometer the ideal tool for smaller and medium-size businesses.

Besides the classical „analysis workflow“, the new Q2 ION now also offers a dedicated workflow for positive material identification (PMI), especially useful for incoming material testing and quality control of metal alloys.



Q2 ION - Metals Analysis made easy

Its design makes Q2 ION very compact and ultra light. It can easily be brought to a nearby site for analysis. Despite its low weight, it is suitable for applications in which ruggedness is required. Q2 ION also defines new standards in ease-of-use. Place your sample onto the spark stand and press the start button or simply touch the screen. In less than thirty seconds you get the complete elemental composition of your metal. The patented Flat Field optical system is a masterpiece of optics design with maximum stability. The high-definition CCD detector & ClearSpectrum® technology offer best-in-class analytical performance.



Next Generation Platform - new Elemental.Suite

The controller of the Q2 ION now runs Elemental.Suite, the new hard- & software platform for Bruker Elemental analyzers. Already in use on the Q4 MOBILE, the software has further developed into stationary applications, bringing along many of the mobile features into the laboratory world. Elemental.Suite has a strong backbone; a Linux controller and an SQL database are professional components to ensure stability and performance.

Simplicity and Analytical Performance



The Q2 ION quickly gained high reputation for its outstanding analytical performance in this class. The new generation now has a further enhanced analytical portfolio with more elements and calibrations. Also the overall analytical performance is improved.

The most obvious change, however, is the use of an industry-grade controller with a touch screen device. Together with the new Elemental.Suite software package, this offers an unseen simplicity in operation. The seamless integration of typical workflows into the user interface allows standard operations with minimum user interaction. Yet the software offers all functions to setup each workflow according to individual customer requirements, but makes it simple to use.

The new Q2 ION - the perfect symbiosis of simplicity and analytical performance !

Typical Analysis Screen



The analysis screen provides all essential information at a glance. Besides the individual readings, the average, absolute and relative standard deviations may also be displayed. Default setting for units (% , ppm) and decimals can be modified to individual needs.

The report designer supports individual print formats including company logo, etc. Printing is "at the tip of your finger" onto printer or PDF!

Typical PMI Screen



Various workflows guide you through the measurement process and display information essential to your process. In PMI the software picks the best-matching grades from the editable library. Deviations are highlighted in colour.

The floor-standing version of Q2 ION brings analytical services closer to the process. The housing offers ample space for accessories and even a printer.



Technical Data Q2 ION and Q2 ION L

Analytical Solution

- Different matrix calibration packages available
- ASPs cover all major elements & alloy groups

Spark Stand

- Maintenance-free
- Argon consumption 2.5 l/min. during measurement
- Argon quality 4.8 (or better)

Electrical Data

- 100 to 240 V (50/60 Hz)
- 200 W during measurement, 25 W standby
- 16 A (240 V) slow blow fuse or 25 A (100 V) slow blow fuse

Dimensions & Weight

- Width 440 [600] mm / 17 [24] inches, Height 530 mm [1280] / 22 [50] inches, Depth 390 [630] mm / 15 [25] inches
- Weight ~ 28 [~115] kg / ~ 62 [~254] lbs

* values in [brackets] refer to floor-standing version



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