



Q2 ION - Metals Analysis made easy

● Ultra-Compact Spark-OES Metals Analyzer

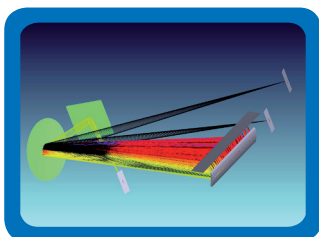
Bruker Elemental's all new spark spectrometer Q2 ION elevates metal analysis into new levels of simplicity and ease-of-use. Today Q2 ION is the smallest and lightest ultra-compact spark emission spectrometer for metals analysis available. It is a versatile multi-matrix system for comprehensive incoming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

Q2 ION covers all major alloying elements in many applications such as Ferrous alloys, Aluminium, Coppers, and many more. It ideally addresses the requirements of small and mid-size foundries, metal processing industries, fabricators, quality control departments, warehouses, metal recyclers, and even inspection companies.



Q2 ION - New Standard in compact Metals Analyzer

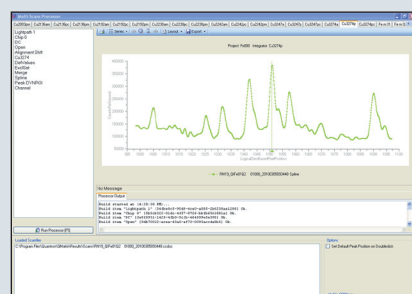
Its design makes Q2 ION ultra light (less than 44lbs/20 kg) so it can easily be hand-carried even to a nearby site for analysis. An optional case is also available. Despite its low weight, it is suitable for applications in which ruggedness is required. Q2 ION also defines new standards in ease-of-use. Place your sample onto the spark stand and press the start button. 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.

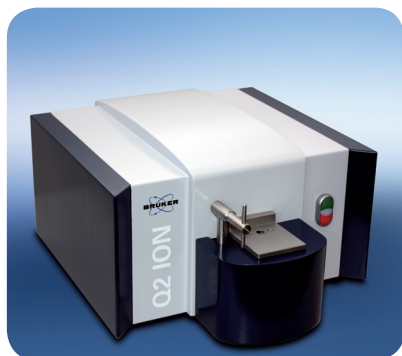
Detector with ClearSpectrumTechnology



Typical Analysis Screen

Element	Concentration	Element	Concentration
Al	0.001	Fe	0.001
Si	0.001	Co	0.001
Mn	0.001	Ni	0.001
Cu	0.001	Zn	0.001
As	0.001	Pb	0.001
Sb	0.001	Bi	0.001
Mo	0.001	Ag	0.001
Cd	0.001	Au	0.001
Cr	0.001	Ir	0.001
Ni	0.001	Pt	0.001
Se	0.001	Sn	0.001
Te	0.001	Sr	0.001
W	0.001	Ta	0.001
Y	0.001	Tb	0.001
Zr	0.001	Hf	0.001
La	0.001	Zn	0.001
Ce	0.001	As	0.001
Pr	0.001	Sb	0.001
Nd	0.001	Mo	0.001
Pm	0.001	Cd	0.001
Sm	0.001	Cr	0.001
Eu	0.001	Ni	0.001
Gd	0.001	Cu	0.001
Tb	0.001	As	0.001
Dy	0.001	Sb	0.001
Ho	0.001	Mo	0.001
Er	0.001	Cd	0.001
Tm	0.001	Cr	0.001
Yb	0.001	Ni	0.001
Lu	0.001	Cu	0.001

Q2 ION



Technical Data Q2 ION

Patented Optical System

- Un-coated CCD detector with lowest dark current
- Flat field grating
- Full spectrum coverage: 170- 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 (ASP)

- Different matrix calibration packages available
- ASPs cover all major elements & alloy groups
- Upgradable for future expansion

Source Generator

- Maintenance-free, two phase PWM Generator
- Frequency 50 to 1000 Hz
- Spark & arc-like discharges from 10 µs to 2 ms

Sparkstand

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

Software

- Intuitive Windows® based software for simple routine operation
- Various user levels for secure and task-specific operations
- Functions for qualitative and quantitative analysis
- Complete QMatrix Software Suite including analysis database & interfaces to Office software
- Grade Library functions

Electrical Data

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

Dimensions & Weight

- Width 440 mm / 17 inches
- Height 220 mm / 9 inches
- Depth 390 mm / 15 inches
- Weight ~ 19 kg / ~ 42 lbs

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