



 *nu instruments*
Instruments that work

ATTO M[®]

HIGH RESOLUTION ICP-MS



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**HIGH RESOLUTION
ICP-MS**

The Nu AttoM[®] is a double-focusing, high-resolution magnetic sector mass spectrometer. The instrument is entirely purpose designed and built to provide the best performance and reliability coupled with flexibility and ease-of-use for high-precision and accurate elemental and isotope ratio analysis.

Features

Double-Focusing Mass Spectrometer with Low Noise Discrete Dynode Electron Multiplier Detection System
Faraday for large dynamic range

Continuously Variable High Resolution Capabilities
From 300 to >10000 (10% valley definition)

Fast Electrostatic Scanning/Jumping
Up to 40% of the mass range
No mass discrimination effects

Fully Laminated, Large Radius Magnet
High scan speed – m/z 6 to 250 to 6 in < 120 ms

High Ionisation Efficiency ICP Source
Combined with a supersonic beam-sample interface

Ground Potential Operation
Providing easy access for service and maintenance procedures

State-of-the-Art Electronics
Purpose designed and built, with full monitoring of all instrument parameters and power supply status

New Comprehensive and Easy-to-Use Software
Software upgrades are supplied, free of charge, with no time limit

Small Footprint

Easy Access Sample Introduction System
Compatible with third party accessories, including laser ablation systems, autosamplers and other sample preparation devices

ICP Source and Sample Introduction

The ICP source uses a proprietary solid-state 1.6KW RF generator operating at 27.12MHz. The software performs RF matching and tuning of the torch box, providing simplicity and reliability of the matching system. Five mass flow controllers can be fitted, providing highly stable plasma gas control with two mass flow controllers dedicated for use with alternative sample introduction systems such as laser ablation systems.



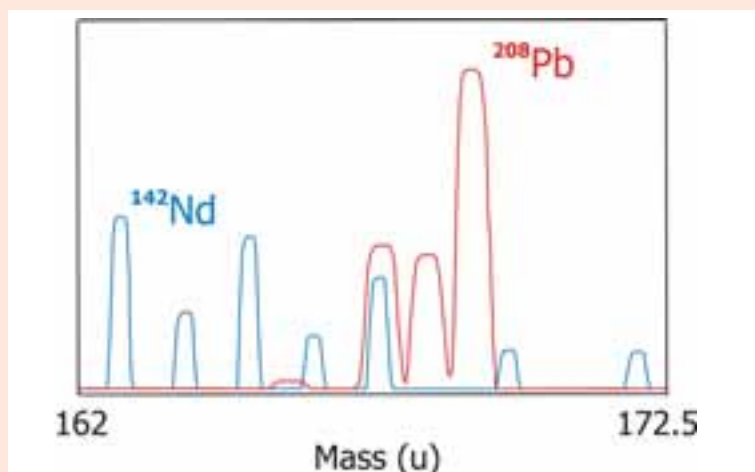
Fast Mass Scanning

The magnet is fully laminated to allow quick mass scanning with extremely low hysteresis.

The AttoM[®] also features a unique electrostatic scanning technology, 'FastScan'. FastScan provides rapid scan speeds over large mass ranges. Combining electrostatic and magnetic scan methods with the unique active deflector system allows the integration time to be increased on selected isotopes during elemental analysis.

Electrostatic Mass Selection

This unique feature allows different mass regions to be scanned without changing the magnet scan range. For instance, whilst the magnet scans from 162 to 172 m/z the isotopes of Nd or Pb can be selected to be transmitted.

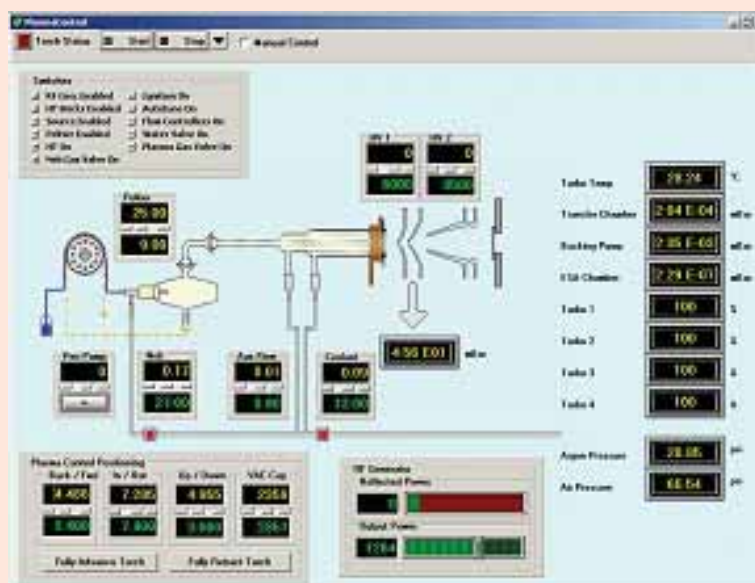


High Resolution

The Nu Instruments AttoM[®] uses three variable slits assemblies to provide resolutions from 300 to >10000. These slits are fully computer controlled and the slit parameters for different resolutions can be stored and accessed from within the operating software. The resolution can be optimised for specific applications and sensitivity does not have to be compromised at the expense of over-resolution.

Automation and Software

The AttoM[®] software provides full control of all instrument parameters. An intuitive working platform allows easy and efficient instrument tuning, parameter storage, sample analysis set up and data measurement.





Unit 74, Clywedog Road South,
Wrexham Industrial Estate, Wrexham, LL13 9XS, UK

Tel: +44 (0)1978 661304

Fax: +44 (0)1978 664301

Email: sales@nu-ins.com

www.nu-ins.com