HIDEN ANALYTICAL

Mass Spectrometers for Fusion Research

DLS Series

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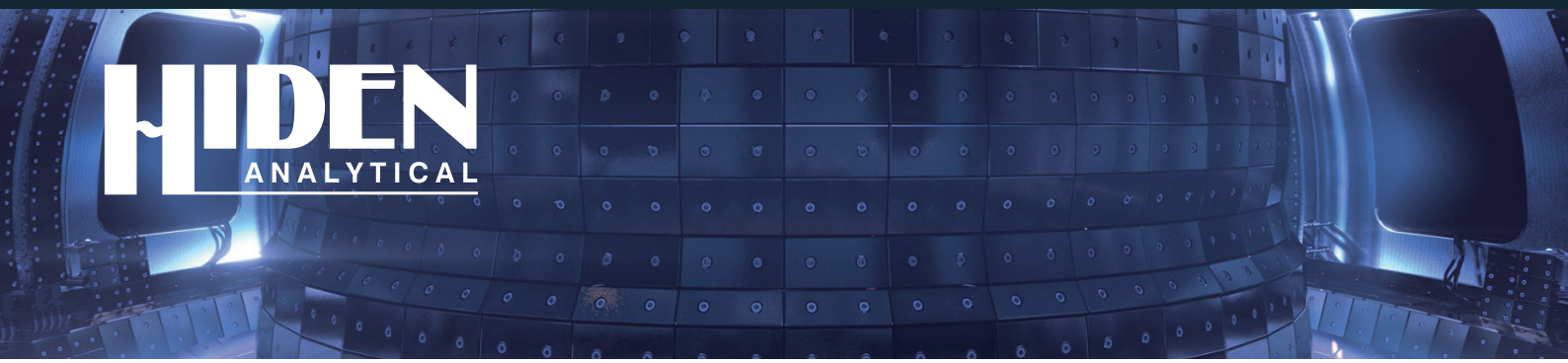
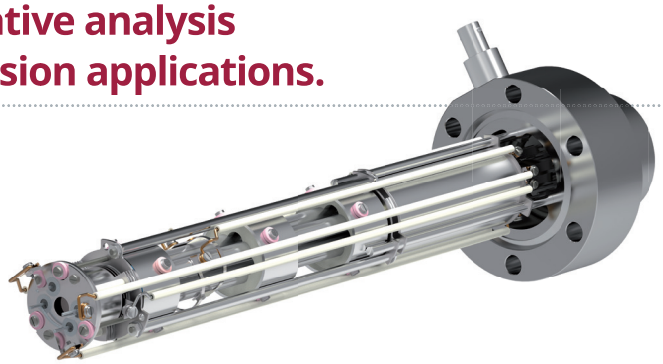


HIDEN ANALYTICAL

DLS-1

Mass spectrometer for real-time quantitative analysis of complex gas and vapour mixtures in fusion applications.

- 1-100 amu mass range
- Software driven recipes using threshold ionisation mass spectrometry (TIMS) for the real-time
- Quantification of hydrogen and helium isotopes and deuterated hydrocarbons
- Sensitivity of D_2 in He is 100 ppm



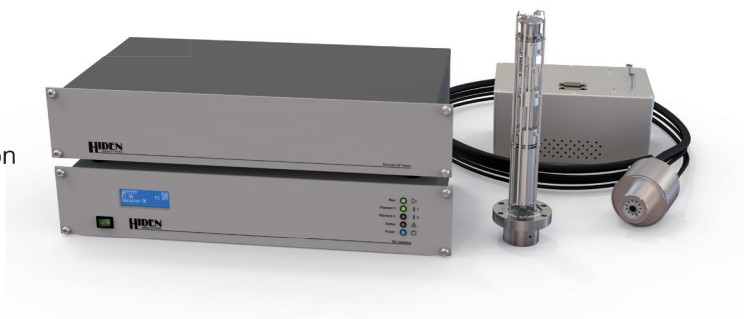
DLS-2 / DLS-2X

Dual-zone switching mass spectrometers for hydrogen and helium isotope analysis and other light gases.

- Two configurations available:

  High Resolution Zone H up to 22.5 amu (0.02 amu real-time mass separation) + Standard Resolution Zone 1 up to 100 amu

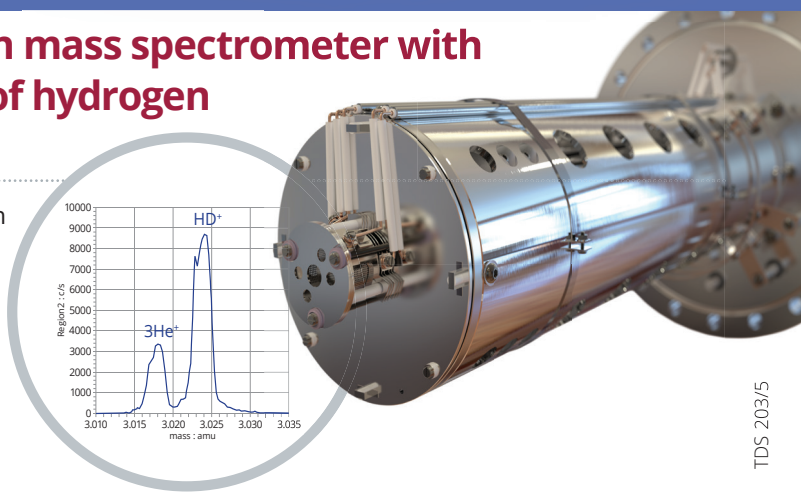
  Ultra-high Resolution Zone H up to 10 amu (0.0065 amu real-time mass separation) + Standard Resolution Zone 1 up to 44 amu
- Sensitivity of both He in D_2 and D_2 in He is 10 ppm
- DLS-2X: remote analyser mounting up to 140 m from sensitive electronics for fusion and harsh operating environments



DLS-20

Unique dual-zone ultra-high resolution mass spectrometer with ultra-high sensitivity for the analysis of hydrogen and helium isotopes and light gases.

- Industry first 20 mm rod diameter quadrupole mass filter for ultra-high mass resolution
- Software switchable dual-zone RF power supply for Zone H ultra-high resolution up to 22.5 amu and Zone 1 ultra-high stability to 200 amu
- 0.006 amu mass separation in real time
- Sensitivity of both He in D_2 and D_2 in He is 1 ppm
- Detection of ^{3}He in HD



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