



ESD 100

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Element specific detector coupled to an elemental analyser for the sensitive determination of elements and stable isotopes

The *ESD 100* can be coupled to both new and existing elemental analysers to provide powerful additional capabilities.

The *ESD 100* will measure the concentrations of C, H, N, O, S and Ar and also their isotopic ratios. These measurements can be made in many sample matrices including soils and plants, with a wide dynamic range, minimum interferences, and absence of memory effects.

The *ESD 100* provides 2-3 orders of magnitude higher sensitivity than the standard thermal conductivity detectors (TCD's) commonly used on elemental analysers.

The *ESD 100* will improve existing measurements and provide both additional capabilities and significantly better performance at an extremely attractive price.



ESD 100

System

Computer-controlled mass spectrometric detector

Simple interfacing to many manufacturer's elemental analysers including Elementar, Thermo, EuroVector, Costech and Leco

Fully automatic operation of complete sample sequences

Simple and flexible data processing with IPI-ISOSTAR software

Data transfer to external networks or other laboratory computers

Technical data

Mass range

1-100 amu

Electrical requirements

Main voltage 230V

Power consumption 250 W

PC operating system

Windows 98 or higher

Interface

Adapter to specific EA
RS232 to PC

Dimensions

500 x 560 x 620 mm (w x d x h)

Weight

approx. 60 kg (bench instrument)

ADVANTAGES

- **Measures both total elemental concentrations and individual isotope concentrations so providing additional capability over conventional EA's**
- **100-1000 times better sensitivity than TCD for improved trace-level measurements**
- **High dynamic range for best reliability of trace-level component measurements**
- **Excellent reproducibility for confidence in results**
- **Fully-automated sample-handling for minimum operator interaction**
- **Easily interfaced to new and existing elemental analysers**
- **Small footprint to conserve laboratory space**
- **Excellent price/performance ratio**



IPI InProcess
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