



RGA Applications

Quality RGA Instrumentation

InSight

From ESS Ltd

InSight from ESS offers high performance instrumentation for RGA applications at a realistic price range. It has been specifically designed for the following applications:

- **High Vacuum RGA**
- **Ultra High Vacuum RGA**
- **High vacuum leak detection**
- **Surface Science**
- **Molecular Beam Epitaxy (MBE)**
- **Synchrotron applications**
- **Other high vacuum studies**



InSight offers a choice of either 200 or 300amu mass ranges (a special 1 to 5 amu High Resolution option is available for He/D₂ studies).

The InSight analyser head is constructed entirely from UHV compatible materials, and features a low surface area, open mesh ion source with low outgassing characteristics and twin thorium filaments.

The mass filter is a precision ground quadrupole array aligned by precision ground high alumina ceramic collars, and at a length of 125mm, it provides excellent resolution and transmission characteristics. Detection is made by a dual Faraday Cup / Channeltron electron multiplier (air stable) detector, giving excellent gain, low noise characteristics and long term stability. The analyser is mounted on a 70mm conflat flange.

The RF Generator couples to the analyser by means of a 1.2m 'elephants trunk' cable, and is equipped with variable potentiometers for Resolution (high and low end) and Mass Scale (high and low end) as standard.

The InSight controller connects to the RF Generator by means of a cable, and the controller houses the analyser and RF power supplies and USB interface. Front panel adjustment of the analyser parameters emission current, focus voltage, ion energy and electron energy are standard.

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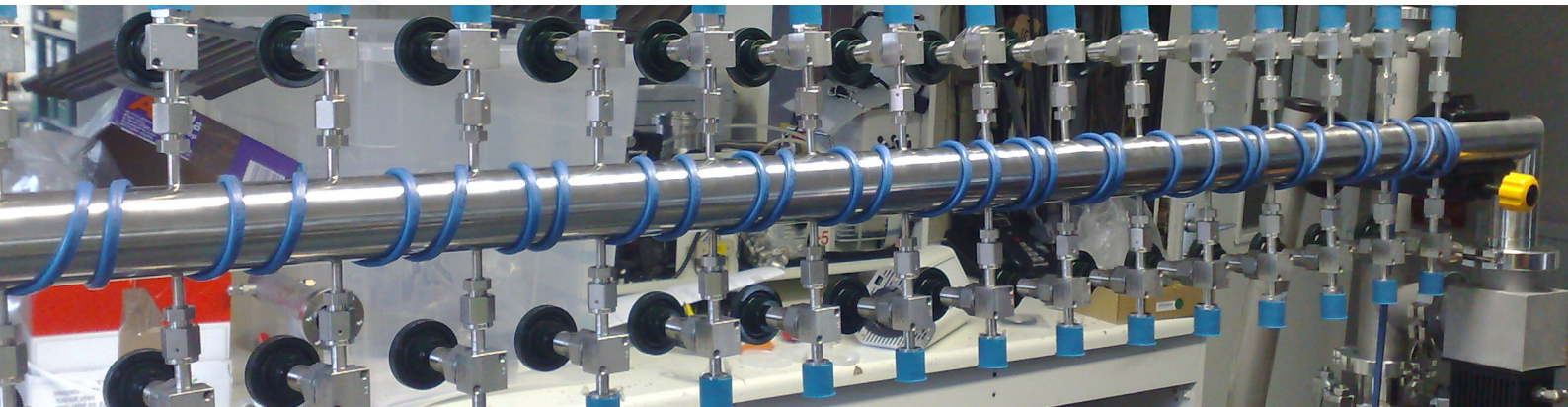
InSight

A comprehensive, easy to use software package provides the following powerful features:

- Analogue scan with 'overlay' feature
- Bar Graph Scan with background subtraction
- Leak Detect Mode
- 20 Channel Multiple ion display mode with full history and automatic data storage
- 20 Channel concentration display with full history and automatic data storage
- Process mode, giving simple graphical status of any particular channel

Up to eight InSight controllers can be connected to a single PC and operated simultaneously.

InSight can also be integrated into low budget systems - please contact us for further details.



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