

Moisture Sorption Analyser



IGAsorp

Hidden Analytical's IGAsorp is designed to accurately measure the magnitude and kinetics of moisture sorption onto materials. It is fully automated and combines an ultra sensitive microbalance with precise measurement and control of both humidity and temperature. The IGA series of instruments uniquely utilise the IGA method to intelligently determine equilibrium uptakes and kinetics. It is a bench top system specially developed for the pharmaceutical, food and packaging industries. Suited to QA testing and product R&D.

Optional Upgrade to run with Organic Vapours.

Specially Designed System for Electronic Component Testing.

Features:

- Accurate measurement of moisture sorption by microgravimetry
- Precise humidity control 0-95%RH
- Precise temperature Control 5-85°C
- Kinetic analysis for the determination of reaction rate constants
- Excellent long term stability
- Simple Calibration procedure
- Integrated drying oven (max 350C) for:

Convenient in situ preparation of samples
Determination of sample drying rates
Thermogravimetric analysis.

Typical samples:

Pharmaceuticals, Foods, Packaging, Desiccants, Textiles, Cosmetics, Electronic Components.

The Sorption Technology Product Range

Model	Functions
IGA-001	Automatic determination of sorption isotherms and kinetics of gas-solid interactions, surface area, porosity, thermal decomposition and pressure-temperature cycling.
IGA-002	Automatic determination of sorption isotherms and kinetics of vapour (gas) - solid interactions, thermal decomposition and pressure-temperature cycling.
IGA-003	Automatic determination of sorption isotherms and kinetics of gas mixture (vapour/gas) -solid interactions, thermal decomposition and pressure - gas composition - temperature cycling.
IGASORP	Dedicated moisture sorption analyser for the characterisation of materials with respect to 'real-world' environments - Optional upgrade to run with organic vapours.
IGA-PTCS	Controllers and software to upgrade an existing manual microbalance system and provide the equivalent IGA measurement functions.
IGA-DSMS	Dynamic sampling mass spectrometer and interface to suit all the above models and provide gas composition analysis (of the evolved or reacted gases).
HP-ABR	High pressure automated break through rig for characterisation of sorbent materials.

If you would like further information or would like to see a demonstration of any of the above products then contact the Sorption Technology Divison at Hidden Analytical.

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