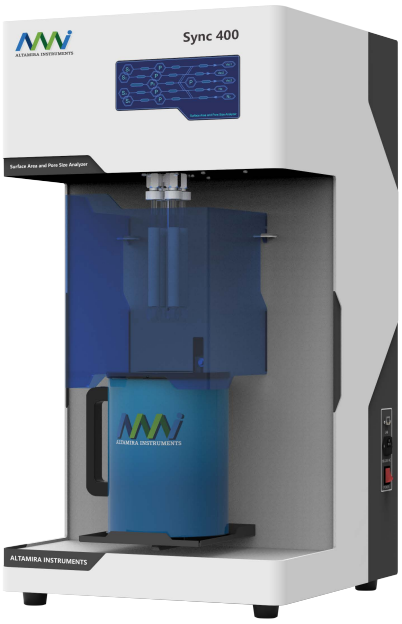
ALTAMIRA INSTRUMENTS

The First Name in Custom Reactor Systems

AMI-*sync*
High-throughput Sorption



With the AMI-sync series, Altamira offers a high-throughput instrument with up to four measuring stations and a separate p0 measuring cell for simultaneous measurement of the saturation vapor pressure. The AMI-sync can be equipped as a 1-, 2- or 4-station instrument. This high-throughput instrument offers versatility for any laboratory.

The AMI-sync

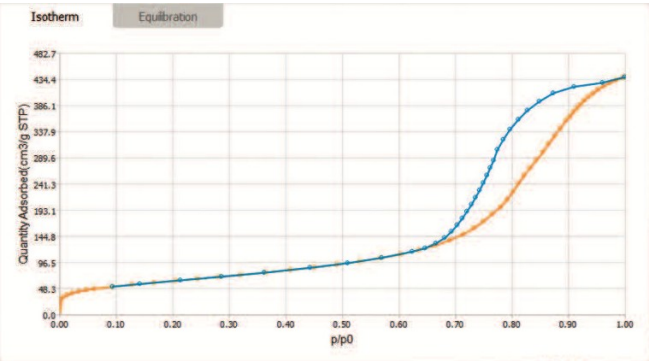
The AMI-sync represents a new affordable and fully automated high-throughput physisorption analyzer. It can be equipped with one, two, or four stations and the number of pressure transducers can be configured per individual requirements. This maximum flexibility in design provides the perfect combination between price and performance.

Hardware and Operation

The AMI-sync can come in one, two, or four stations. Each station is equipped with a p0 measuring transducer, but there is a single dewar for all stations. Thus, the AMI-sync offers the perfect solution for customers with limited laboratory space that also have sample testing bottlenecks. The AMI-sync can be configured with sample testing speed in mind, by having a pressure transducer per station. Alternatively, the AMI-sync can be configured with price in mind by having one pressure sensor on up to all four stations.

Through software control, the AMI-*sync* can measure/perform various functions, including the following :

- BET surface area (single or multiple point)
- Adsorption and Desorption isotherms
- Langmuir surface area
- External surface Area (STSA)
- BJH analysis
- Average pore size, total pore volume



Specification Table

	420	440	210	220	110
Analysis Ports	4	4	2	2	1
p0 Transducer	1	1	1	1	1
Analysis Pressure Transducer	3	5	2	3	2
Surface Area	≥ 0.0005 m^2/g				
Pore Size	.35-500 nm				
Pore Volume	≥ 0.0001 cm^3/g				
Pump	Mechanical Pump (minimal 5.0 x 10^{-4} mmHg)				
p/p0	10^{-5} - 0.998				
Accuracy PTs	1000 mmHg (+/- 0.2% F.S.)				
Adsorbates	N_2, CO_2, Ar, Kr, H_2, O_2, CO, NH_3, CH_4				

Benefits

- **Each measurement station has its own p0 transducer and can have its own analysis transducer**
- **Displays real-time isotherm data (pressure -vs- time)**
- **Equipped with a two-step filter system to protect against sample contamination**
- **Equipped with a three-step evacuation routine for safe sample handling**
- **Change activities without restarting**

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