

# RUBOLAB



## RuboSORP MPA

- 1, 3 and 5 Port Version
- 100 bar
- 300 °C
- Intelligent Software
- Integrated Uncertainty Calculation  
According to DIN ISO EN 9001

### APPLICATIONS

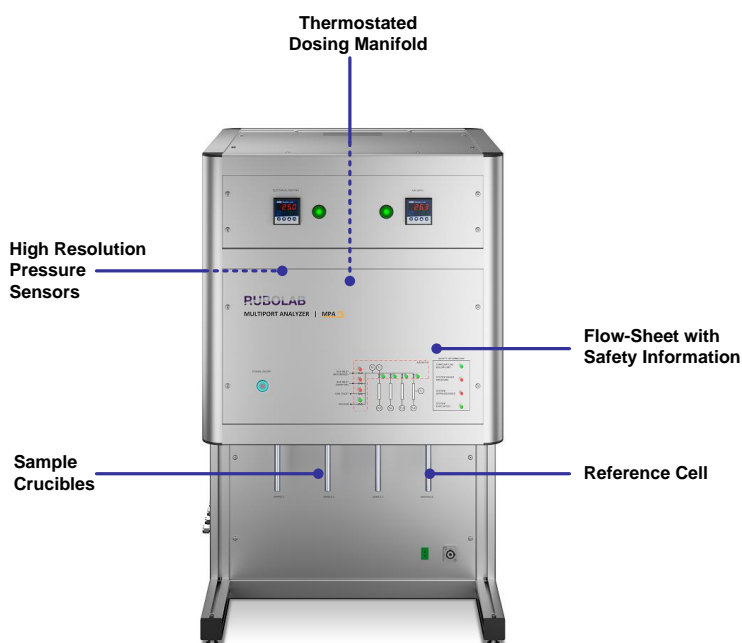
- Gas storage
- Porous Materials
- Biogas Purification
- Pharma Research

### Background

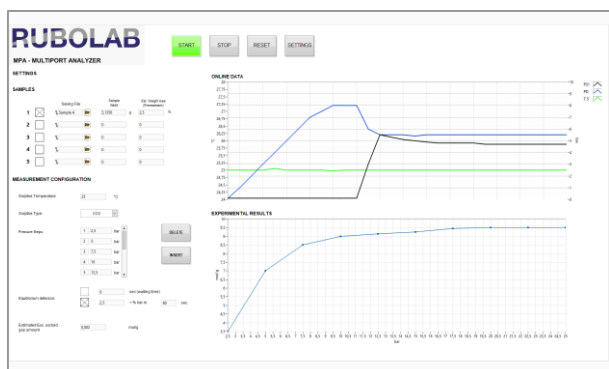
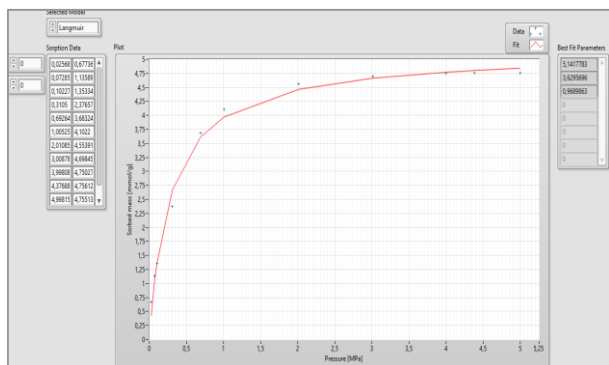
The technical use of sorption processes reached increasing importance during the last decades. The applications are widely diversified, ranging from biogas processing to medical technology or gas storage. The manometric method is a well-established technique to measure sorption isotherms. Major advantages of manometric instruments are short measurement times and a high grade of automation.

### The Instrument

Measuring instruments of the RuboSORP series impress with their compact design, which can be modified according to customer requirements. This instrument allows the simultaneous measurement of up to 3 or 5 samples. The fully automated apparatus is developed for time saving measurements like material screenings. It can be used to measure adsorption isotherms at pressures of up to 100 bar.



## Benefits



### Time and Cost-efficient Measurement

The improved manometric method of RuboLab MPA allows a time and cost-efficient measurement of up to 5 sample materials within a wide pressure and temperature range. Thereby, the workload of the user is minimal, caused by automated measurement performance.

### Software

The MPA instrument will be delivered together with RuboLab MPA control software, which can be installed on a Microsoft Windows PC. The user-friendly software interface allows the programming of all measurement parameter. During measurement performance the data is used to calculate the adsorbed gas amounts. Adsorption data is displayed online and correlated by means of appropriate isotherm models.

## Technical Specifications (Standard Version)

Number of samples		1, 3 or 5
Maximum pressure	bar	100 (200 on request)
Accuracy of pressure detection	% FS	0.01
Number of pressure sensors		depends on version
Temperature range	°C	0-300 (-196 and 500 on request)
Temperature sensor		Pt 100
Accuracy of temperature detection	%	0.1
Temperature ramp	°C	1-25
Gas types		non-corrosive (corrosive on request)
Pretreatment type		In-situ
Sample crucible connection		VCR
Gas connection		6 mm Swagelok   1/4" Swagelok
Measurement performance		Fully automated
Dimensions (W x H x D)	mm	400 x 600 x 500
Power supply		AC 110V/220V

## CONTACTS

For further information about our products please contact our head office or the corresponding local distributor.

Please find more detailed information about our sales network on [www.rubolab.de/distributors](http://www.rubolab.de/distributors)

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