

## SURFACE AREA AND PORE SIZE DISTRIBUTION ANALYZER

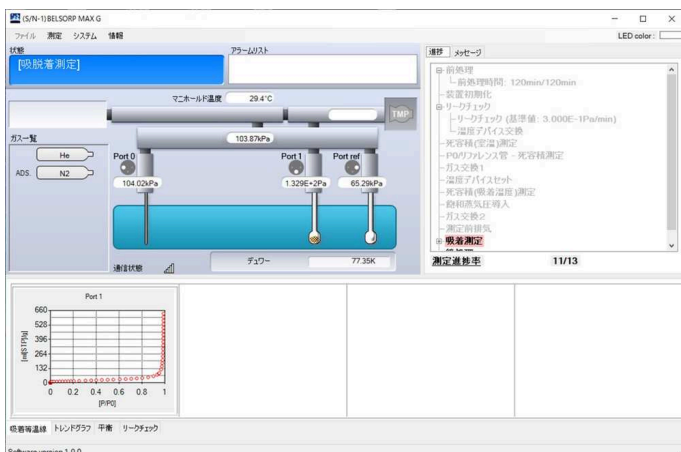
# BELSORP MAX G



The BELSORP MAX series has been extended by a powerful, compact and cost-effective model. The BELSORP MAX G is a special instrument for measuring porous / non-porous material in the micro- to macroporous range (BET specific surface area / pore size distribution) and features one sample port.

## FEATURES

- | BET and PSD from micro to meso and macropores by gas adsorption measurement of N<sub>2</sub> (77.4K), Ar (87.3K)
- | Low BET specific surface area by Kr gas measurement at 77.4K
- | High performance PSD analysis by GCMC • NLDFT in BELMaster Version 7
- | Actual and short time evaluation for each adsorption point by gas dosing optimization (GDO) function



## TYPICAL APPLICATIONS

Used in various fields such as catalysts, batteries, fibers, polymer materials, chemicals, pigments, cosmetics, magnetic powder, separation membranes, filters, toner, cement, ceramics, semiconductor materials, etc.



To find the best solution for your particle characterization needs, visit our application database

## TECHNICAL DATA

Please note that the specifications below are just an exemplary configuration.

Please contact us to discuss your individual requirements.

<b>Measurement principle</b>	Volumetric method + AFSM™
<b>Adsorptive</b>	N <sub>2</sub> , Ar, Kr, CO <sub>2</sub> , H <sub>2</sub> , CH <sub>4</sub> , Butane, other non-corrosive gases
<b>Measurement port</b>	1 port (high accuracy mode)
<b>Measurement range - Specific surface area</b>	0.01 m <sup>2</sup> /g and above (N <sub>2</sub> , Ar) 0.0005 m <sup>2</sup> /g and above (Kr) depending on sample density
<b>Measurement range - Pore size distribution (Diameter)</b>	0.35-500nm
<b>Measurement range - Pressure transducer</b>	133 kPa (1000 Torr) ±0.15% of F.S. x 3 units 1.33 kPa (10 Torr) ±0.5% of Readings. x 1 units 0.133 kPa (1 Torr) ±0.15% of Readings. x 1 unit
<b>Gas port</b>	2 ports (up to 4 ports possible)
<b>Vacuum gage / pump</b>	Turbo molecular pump + rotary pump Cold cathode gauge (OP)
<b>Sample tube</b>	Standard: approx. 1.8 cm <sup>3</sup> (optional: 5 cm <sup>3</sup> )
<b>Dewar vessel</b>	Volume: 2.6 l Holding time: 80 h
<b>Pretreatment heater</b>	50-450°C
<b>Water bath</b>	-10-70°C (2020 Oct release)
<b>Analysis software BELMaster™ 7</b>	Adsorption isotherm, BET specific surface area I type (ISO9277), BET automatical analysis, Langmuir specific surface area, BJH, DH, CI, INNES method, t-plot, Alpha-s plot
<b>Analysis software BELMaster™ 7 cont.</b>	HK, SF, CY method, NLDFT / GCMC (OP BELSim™), MP method, Dubinin-Astakhov method, Difference adsorption isotherm, Molecular probe, Adsorption rate analysis (OP)
<b>Dimensions (W x H x D)</b>	320 x 740 x 465 mm
<b>Weight (main body)</b>	36 kg
<b>Utility - Gas</b>	He, adsorption gas: 0.1MPa (G), purity: more than 99.999% Joint: 1/8" Swagelok joint
<b>Utility - Power</b>	Main unit: AC 100-240 V / 850W, 50 / 60 Hz (including vacuum pump)
<b>Environmental conditions</b>	Temperature: 10-30°C Humidity: 20-80% RH

[www.microtrac.com/belsorp-max-g](http://www.microtrac.com/belsorp-max-g)