

BET SURFACE AREA ANALYZER

## BELSORP MR1



The BELSORP MR 1 is designed for rapid and convenient BET single-point measurement.

### Highly efficient measurement

- | Simultaneous pre-treatment and measurement improve process efficiency.
- | BET single-point measurement of specific surface area possible in approx. 15 mins (including calibration).

### Highly accurate measurement

- | AUTO-ZERO function is equipped with a highly sensitive thermal conductivity detector (TCD).
- | High accuracy, high sensitivity, high reproducibility.
- | A dedicated calibration valve enables simple and stable calibration measurements.
- | Automatic measurement of temperature and pressure for accurate calibration.

### Easy operability

- | Easy handling thanks to an automatic Dewar elevator and a cooling fan.
- | User-friendly touch panel.
- | Measurement results and trend data can be saved to a USB memory drive.
- | Compact design without external PC.

## TYPICAL APPLICATIONS

Used in various fields such as: battery materials, catalysts, medicine / pharmaceuticals, cosmetics, fibers, polymer materials, fuel cells , cement, Toner particles, pigments, ceramics, , separation membrane, semi-conductor (CMP), adsorbent, MOF / PCP ...



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

## TECHNICAL DATA

<b>Measurement principle</b>	Dynamic flow gas method (Single point BET)
<b>Detector</b>	Thermal Conductivity Detector (TCD)
<b>Adsorption gas</b>	N <sub>2</sub>
<b>Carrier gas</b>	He
<b>Number of measured samples</b>	1
<b>Pretreatment temperature</b>	Up to 400°C
<b>Measurement range</b>	0.01 m <sup>2</sup> /g and above
<b>Reproducibility</b>	within ±1.0%
<b>Measurement time</b>	Approx. 15 minutes (including calibration, excluding pretreatment)
<b>Dimensions (W x H x D)</b>	350 x 553 x 368 mm
<b>Weight (main body)</b>	30 kg
<b>Power</b>	AC 110 V / AC 230 V, 400 W, 50 / 60 Hz
<b>CE certified</b>	yes

\*Sample dependent

\*\*The result may display after 3~5 minutes from rising the Dewar vessel

[www.microtrac.com/belsorp-mr1](http://www.microtrac.com/belsorp-mr1)