



Multisample Dynamic Moisture Sorption SPS11-10µ

Fully automated, multisample gravimetric sorption analyzer. Determination of sorption and desorption isotherms and sorption kinetics over a wide temperature and humidity range.

The SPS11-10 μ system is a robust and easy to operate DVS system. The gravimetric resolution of 10 μ g enables the analysis of medium and large samples with high accuracy. With the large load range of the balance, the system is perfectly suited for the analysis of bulky or heavy samples.





Number of samples 11 samples in dishes Ø 50 mm
Min sample weight <50 mg

Max sample weight 220 g per sample (total max 500 g)

Balance resolution dual weight range:

10 μ g resolution up to 111 g with $\pm 20~\mu$ g repeatability RMS*, 100 μ g resolution from 111 g to 220 g with $\pm 100~\mu$ g repeatability RMS

Temperature range +5 °C to +60 °C Temperature accuracy over time ± 0.1 K Humidity range 0 % RH to 98 % RH**

Humidity accuracy ± 0.5 % RH (0 ... 98 % RH), at 10 ... 30 °C

Long term stability better than 1 % RH per year Water supply removable tank, 700 ml compressed air/ N_2 2.5 bar to 10 bar

dry, clean, oil-free (class 1, ISO 8573-1:2010)
Dimensions & weight width 488 mm, depth 630 mm, height 437 mm

(1024 mm with open lid), weight 62 kg***

Environmental cond. temperature +15 °C to +25 °C, humidity max 75 % RH Power supply 100-240 VAC, 50-60 Hz, consumption: 0.5 kW***

Calibration sensor calibration with salt solutions

Internal controller operating system Windows 10 (English)
Software SPS Software (English) incl. calibration tool

21 CFR part 11 compliant software package (optional)

Data format MS Excel, LIMS compliant data format

Optional hardware camera, Raman, Permeability Kit, Large Objects Kit

^{*} Root mean square.

^{**} The full humidity range can only be achieved at a chamber temperature slightly above room temperature.

^{***} Dimension, weight and power consumption do not include keyboard, mouse and monitor.