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Multisample Dynamic Moisture Sorption SPSx-1µ Advance

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

The SPSx-1µ Advance model shows best weighing performance and a very high reproducibility of better than ±2 µg at a gravimetric resolution of 1 µg. Small and medium sized samples are measured at extremely high resolution over the full load range from <10 mg up to 22 g.

Technical data

Number of samples	two exchangeable sample trays are included:
	11 samples in dishes Ø 50 mm
	23 samples in dishes Ø 33 mm
Min sample weight	<10 mg
Max sample weight	22 g per sample
Balance resolution	1 µg
	±2 µg 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
Gas supply	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

* Root mean square. The specified values assume that the system is installed in an environment suitable for the operation of microbalances.
** 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.