SARTURIUS

Infusion Pump Testing & Micro-Flow Calibration



Be equipped with trustworthy data to uphold the integrity of medical infusion pumps throughout their lifecycle, with Cubis® II ultra-high resolution balances for accurate dose flow-rate assessment and regulatory compliance.

Main Regulations

- International Standard IEC 60601 Part 2-24:2012. Particular requirements for the basic safety and essential performance of infusion pumps and controllers
- Technical Information Report AAMI TIR101:2021. Fluid delivery performance testing for infusion pumps

Customers

- Infusion pump manufacturers
- Syringe pump manufacturers
- Insulin pump manufacturers
- Medical device Contract
- Manufacturers
- Micropump manufacturers
- Calibration labs

Applications

- Testing the flow-rate accuracy over the entire period of intended use
- Evaluation of environmental and pressure effect on longterm flow-rate accuracy
- Determination of bolus dose accuracy

Your Challenges	Our Promises
Precision Testing	High-Resolution Cubis [*] II balances for accurate flow rate and dose assessment
Regulatory Compliance	Balance features adhering to AAMI TIR 101, IEC 60601-2-24, FDA, MDR, GMP and 21CFR part 11 standards
Reproducible and Reliable Data	Monolithic weighing system for fastest stabilization time and highest sensivity
Cable entry frames	Special draft shield setup to facilitate the integration of cable set into the weighing chamber
Environmental data reconciliation	Integrated climate sensor to capture weighing data, backed by temperature, humidity and pressure values inside the weighing chamber
Open accessibility to data for analytics	Open integration into existing ELN LIMS systems without the need of additional software
Elimination of statics	Built-in ionizer, strategically positioned to eliminate 100% of electrostatic charges

Unmatched Stability with Open IT Integration

Stable & repeatable measurement

A monolithic weighing system that empowers flow & accuracy. Cubis® II balances offer exceptional repeatability, high capacities, fast stabilization, and low weighing drifts under real-life conditions.

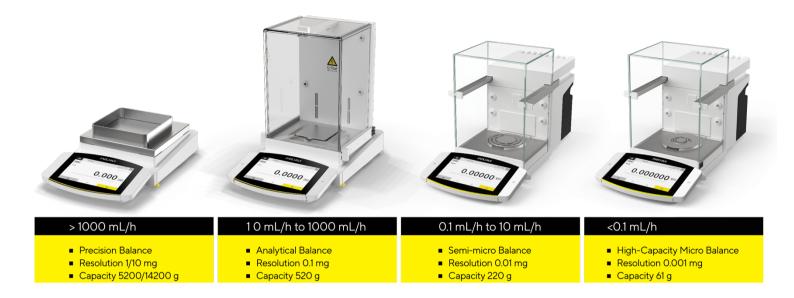
Longer, uninterrupted flow and accuracy testing periods

Cubis® II High-Capacity Micro balances are designed to let you run a maximum number of shots through high capacities (61g) and a readability of 1 µg with minimum interruption.

Fast data transfer to connected softwares

Cubis® II balances achieve high and accurate data transfer rates of 10 Hz (10 measuring values per second) and can achieve even higher transfer rate with specific adjustments.

Recommended balances according to AAMITIR-101



Key Benefits

- Ultra-high resolutions balance with 0.001 mg resolution and 61 g capacity or 0.01 mg resolution and 220 g capacity
- Accurate and repeatable measuring values under real lab conditions
- Data output with 10 Hz (for faster data output contact us directly)
- Drift reducing monolithic weighing system
- Built-in Ionizer available to eleminate charges of the beaker/sample/infusion set
- A high-volume capacity weighing floor guards the inner system during sample weighing and basic cleaning

At Sartorius, we are committed to providing top-tier pump testing solutions that ensure the accuracy, reliability, and efficiency of your medical devices. Our advanced technologies and expert support help you meet the highest industry standards.



Download our colaborative application note with B.Braun: Challenges in testing of dosing accuracy

