

Automated Liquid Dosing for Precise Concentrations



Highly Accurate Concentrations

Prepare concentrations down to 0.1 mg/g in one step in accordance with USP. Automatic liquid dosing with Quantos achieves extremely accurate solutions.



Compliant Process

Due to the improvements in accuracy, USP approves gravimetric procedures as an alternative method for preparing solutions. The gravimetric method requires a switch from expressing concentrations in mg/mL to mg/g. However, revalidation of SOPs is not needed.



Minimize Out-of-Specs

Gravimetric sample preparation reduces laboratory errors and out-of-specification (OOS) incidents by up to 50 percent, helping you to increase laboratory efficiency.



Dispense Solvents Automatically and Accurately

With the addition of a Quantos liquid dosing module, you can now use your METTLER TOLEDO balance not only to weigh your substances, but also to prepare solutions with an unmatched level of accuracy.

The Quantos liquid dosing module dispenses liquids in a fine jet with individual drops weighing less than 1 mg. To achieve the desired concentration, the Quantos liquid dosing module dispenses the correct amount of solvent according to the actual dosed amount of substance. Quantos calculates the amount of liquid needed automatically; you only need to specify the concentration at the start of the process.

Upgrade Your Balance with a Quantos Liquid Dosing Module

The Quantos liquid dispensing system works in conjunction with your XPE analytical balance. Solvents are dispensed automatically into the container on the balance. Preparing solutions with the Quantos liquid dosing module takes fewer steps and minimizes human interaction. Not only are your solutions prepared more accurately, they are also fully traceable.



Technical specifications

Liquid dispensing range	2 mg-100 g
Lowest concentration* according to automated USP minimum weight	0.07 mg with 0.005 mg readability 1 mg with 0.01 mg readability 8.2 mg with 0.1 mg readability
Liquid source bottle	250ml, 500ml, 1000ml pressure-tight bottle with GL45 thread
Average dispense time	Maximum flow rate 30 g/min (0.5 bar pressure)
Suitable liquids	Low-viscosity solvents (<20 cP) e.g. water, acetonitrile, methanol, ethanol, DMSO
Compatible balance models	XPE206DR, XPE205, XPE205DR, XPE105, XPE105DR, XPE204, XPE304, XPE504, XPE504DR

*typical value



Save valuable samples

Precise liquid dosing enables you to make small volumes of solutions, generating considerable savings with valuable samples. Automatic dosing directly into your target container also avoids spills.



Micro dosing valve

A micro dosing valve is used to dispense solvents automatically with levels of precision down to less than 1 mg.



No more flasks or pipettes

Thanks to direct dosing into your target container, pipettes and volumetric flasks are no longer necessary. Cleaning and cleaning validation of flasks and pipettes is eliminated.



LabX – for full traceability and easy documentation

Connect your Quantos system to LabX laboratory software and benefit from:

- Full traceability
- Guaranteed adherence to SOPs
- Automatic calculations
- Customizable reports

All data and process information is saved securely, assisting in compliance with FDA 21 CFR Part 11.

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