XPR Automatic Balance

Automated Powder and Liquid Weighing

Smallest Minimum Weight

Thanks to the outstanding accuracy of automated weighing, the balance minimum weight can be reduced by up to 30%. This means you can make considerable savings by using less of your expensive and rare samples.

Maximum User Protection

Automated weighing protects you from toxic and chemically aggressive substances. Hazardous samples are dispensed directly into the target container, avoiding manual sample handling and eliminating spills.

Flexibility of Use

With just one click, the dosing head moves up and you can use your balance for all your manual weighing applications in the usual way.

Perfect Concentrations

Prepare highly accurate concentrations as low as 0.1 mg/g in just one step. The balance calculates the precise amount of solvent required based on the amount of substance dosed to produce the target concentration.

Automation, Safety and Compliance
for Maximum Return on Investment

XPR Automatic Balances offer a standalone solution for highly accurate, reproducible and safe automated weighing of powders and liquids.

Automated weighing reduces OOS results and other errors by up to 50%. XPR Automatic Balances combine all the benefits of automated dispensing with METTLER TOLEDO advanced weighing technologies.

Weighing small amounts of substances is now considerably faster, giving you more time to focus on other critical elements of your analysis.

METTLER TOLEDO

XPR Automatic Balance Models—Weighing and Dispensing in One

Technical Specifications

	XPR106DUHQ	XPR226DRQ	XPR305D5Q
Typical use	For automated weighing of small amounts of precious samples	For a wide range of weighing applications	For automated weighing using heavier tare vessels
Material number	30591875	30591935	30586237
Capacity (full range/fine range)	120/41 g	220/121 g	320 g
Readability (full range/fine range)	0.005/0.002 mg	0.01/0.005 mg	0.05 mg
Minimum weight automated (tolerance =1%)	0.4 mg	0.7 mg	4.1 mg
Minimum weight automated (USP, tolerance = 0.10%)	4 mg	7 mg	41 mg
Minimum weight (tolerance =1%)	0.6 mg	1 mg	4.1 mg
Minimum weight (USP, tolerance = 0.10%)	6 mg	10 mg	41 mg
Target vessel	Opening diameter of >6 mm. Suitable for capsules, bottles, vials, tubes with maximum height of 212 mm (135 mm for XPR106DUHQ)		

Sample characteristics	Powder	Liquid
Dispensing range (typical values)	1 mg–5 g*	100 mg–10 g (0.1 mL–10 mL for water)
Suitable samples	Free-flowing, fluffy, granular, electrostatically charged	Low-viscosity solvents (<20 cP), e.g. water, acetonitrile, methanol, ethanol, DMSO
Average dispensing time	10–60 s, depending on target weight, powder flow and required accuracy	Maximum flow rate 30 g/min (0.5 bar pressure)
Lowest automated concentration**	n/a	0.1 mg/g (0.1 mg/mL for water)

* Recommended maximum weight for automated powder dispensing

** Lowest value achieved with automated dispensing. Lower concentrations are easily achieved via dilution.

Smart Accessories

Choose from our range of vial and capsule adapters, special dosing heads, anti-static solutions, and more.

Increased Throughput

With the Sample Changer, you can weigh up to 30 powder or liquid samples in just one run.

Substance Tracking

Each dosing head has an integrated RFID chip to store data such as substance ID, quantity etc.

LabX – digital data handling and automatic documentation

Connect your XPR Automatic Balance to LabX laboratory software and benefit from:

• Full traceability
• Workflow guidance on the balance terminal
• Seamless connectivity to e.g. chromatography software or LIMS
• Central data storage

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

www.mt.com/xpr-automatic

For more information