XS Analytical Balances

Worry-free Weighing

Ergonomic, Reliable and Accurate

Fast Results

SmartGrid™ minimizes the effects of air currents to dramatically reduce stabilization times. Spilled substances fall through the grid and don't influence your weighing results. Continuous weighing with fewer breaks for cleaning is guaranteed.

Easy Cleaning

The full weighing chamber, including SmartGrid and the drip tray underneath, dismantles in seconds and all parts go in the dishwasher.

Ergonomic Dosing

Thanks to the unique ErgoClip accessories, you can dose directly into your tare container in one easy step – this not only speeds up weighing processes but saves valuable substances too.

Intuitive Operation

The touchscreen is bright and clear to read. Fatigue and eye strain are greatly reduced thanks to a terminal that can be adjusted to individual comfort levels – brightness, contrast and the size of the digits are all configurable.

XS Analytical Balances
Fast Routine Weighing

The XS analytical balance line, with its innovative accessories, sets new standards for fast and efficient weighing processes. Unique features on XS analytical balances make balance operation as comfortable and as safe as possible.

For example, the special draft shield eliminates strains from awkward dosing processes by enabling you to open the right-hand door with the left hand, or vice versa, so dosing is relaxed and straightforward.

With balance users benefiting from truly ergonomic weighing processes, work can be carried out much faster, increasing productivity in your laboratory.

METTLER TOLEDO XS analytical balances – focused on high productivity.

METTLER TOLEDO

XS Analytical Balances

Limit Values	XS204DR	XS64	XS104	XS204	XS304	XS105DU	XS205DU	XS225DU	XS105
Maximum capacity	220 g	62 g	120 g	220 g	320 g	120 g	220 g	220 g	120 g
Readability	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.01 mg
Readability, fine range	1 mg	-	-	-	-	0.01 mg	0.01 mg	0.01 mg	-
Tare range (from … to)	0 … 220 g	0 … 62 g	0 … 220 g	0 … 220 g	0 … 320 g	0 … 120 g	0 … 220 g	0 … 220 g	0 … 120 g
Maximum capacity, fine range	81 g	-	-	-	-	41 g	81 g	121 g	-
Repeatability (nominal) (sd)	0.7 mg (200g)	0.1 mg (60g)	0.1 mg (100g)	0.1 mg (200g)	0.1 mg (300g)	0.1 mg (100g)	0.1 mg (200g)	0.1 mg (200g)	0.1 mg (100g)
Repeatability (5% load) (sd)	0.1 mg	0.07 mg	0.07 mg	0.07 mg	0.12 mg	0.02 mg	0.02 mg	0.02 mg	0.02 mg
Linearity deviation	1 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg
Eccentricity (test load) [1]	0.3 mg (100 g)	0.15 mg (100 g)	0.3 mg (100 g)	0.3 mg (100 g)	0.3 mg (100 g)	0.3 mg (50 g)	0.3 mg (100 g)	0.3 mg (100 g)	0.3 mg (50 g)
Sensitivity offset (test weight)	1 mg (200 g)	0.9 mg (200 g)	1 mg (200 g)	1 mg (200 g)	1 mg (200 g)	0.8 mg (100 g)	0.8 mg (200 g)	0.8 mg (200 g)	0.8 mg (100 g)
Sensitivity temperature drift [2]	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C	0.00015%/°C
Sensitivity stability [3]	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a	0.0002%/a
Typical Values									
Repeatability (5% load) (sd)	0.04 mg	0.04 mg	0.04 mg	0.04 mg	0.04 mg	0.01 mg	0.01 mg	0.01 mg	0.008 mg
Linearity deviation	0.3 mg	0.1 mg	0.13 mg	0.13 mg	0.15 mg	0.13 mg	0.13 mg	0.13 mg	0.13 mg
Eccentricity (test load) [1]	0.16 mg (100g)	0.06 mg (20g)	0.16 mg (100g)	0.16 mg (100g)	0.16 mg (100g)	0.15 mg (50g)	0.16 mg (100g)	0.1 mg (100g)	0.1 mg (50g)
Sensitivity offset (test weight)	0.8 mg (200g)	1.2 mg (200g)	0.8 mg (200g)	0.8 mg (200g)	0.8 mg (200g)	0.4 mg (100g)	0.6 mg (200g)	0.6 mg (200g)	0.4 mg (100g)
USP minimum sample weight (5% load, k=2, U=0.1%)	82 mg	82 mg	82 mg	82 mg	120 mg	20 mg	20 mg	20 mg	16 mg
Minimum sample weight (5% load, k=2, U=1%)	8.2 mg	8.2 mg	8.2 mg	8.2 mg	12 mg	2 mg	2 mg	2 mg	1.6 mg
Settling time	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	3 s
Settling time, fine range	1.5 s	-	-	-	-	3 s	3 s	3 s	-

[1] according to OIML R76; [2] in the temperature range 10 to 30°C; [3] Stability of sensitivity with proFACT self-adjustment switched on; s: seconds; a: year (annum); sd: standard deviation

Features

Accurate Results
FACT internal adjustment with advanced features

Efficient Operation
SmartGrid hanging weighing pan
SmartTrac dosing guide
Big numbers on display
Easy cleaning

Quality Assurance
TestManager embedded software
MinWeigh function
FACT and GWP history
Password protection

Seamless Process
LabX ready

Accessories

ErgoClips
ErgoClip holders enable direct dosing into tare containers. Avoid transfer errors and get the lowest minimum weight.

SmartPrep™
SmartPrep™ single-use, antistatic funnels enable safe and fast weighing-in of powders. Simply weigh, transfer and rinse

Printers
The robust P-50 series lab printers produce archival-quality printouts on paper as well as continuous and peel-off labels.

AntiStatic kits
Pass your sample and tare container through the U-shaped electrode to eliminate electrostatic charge.

Connectivity
In addition to the built in RS232, a second interface provides options for Ethernet, Bluetooth or RS232 connections.

For further information on accessories, please visit **www.mt.com/lab-accessories**

GWP®
Good Weighing Practice™
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ISO 9001 equivalent ISO 14001 equivalent CE

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