A Must-Have

For Your Research



Accurate weighing

The XS3DU's superb weighing cell with its 1 µg readability in a 800 mg range guarantees accurate research results even with smallest samples.



Reliable results

The repeatability of below 0.8 µg is the key for utmost measurement reliability. XS3DU cuts down unnecessary test repetitions and waste of valuable samples.





Enhanced reproducability

Accessories such as the U-lonizing electrode guarantee the accuracy and reproducibility of your results even under difficult weighing conditions.



Perfect control

The XS terminal with its customizable touch-screen invites to simple, intuitive and error-free usage.

XS3DU Micro Balance

One Step Ahead

In research projects you often deal with limited amounts of valuable samples. Using more than you really need and any waste are stumbling blocks on your way to a successful project completion.

XS3DU Micro Balance keeps your weighing process as short, cost-saving and effective as you need, which allows you to concentrate on your results.

The unique weighing accuracy of the XS3DU Micro Balance lays the safe basis for your daily lab work.

METTLER TOLEDO XS3DU Micro Balance offers:

- Utmost reliable measurement performance
- Intuitive and easy operation
- High flexibility in connectivity and data transfer

METTLER TOLEDO XS3DU Micro Balance is designed to boost efficiency and reliability of your research results.



XS3DU Micro Balance

For the High Demands of Your Daily Work

Standard Equipment

- Dual Range Balance with 1 μg readability between 0 0.8 g and 10 μg readability up to 3.1 g.
- Manually driven draft shield.
- FACT: fully automatic time- and temperature-controlled internal adjustment and linearization with 2 internal weights.
- Built-in RS2320, two auxiliary interfaces for connecting a keyboard or additional IR sensor for hands-free operation.
- Slot for a second optional interface such as LocalCAN, Ethernet, RS232, USB, MiniMettler, Bluetooth, PS/2.

Display functions

- Monochrome touchscreen display
- 5 different pre-programmed applications
- 3 definable info fields for user and sample identification
- SmartTrac: graphic weighing-in aid, to track capacity and weighing tolerances
- Up to 10 shortcut keys for special functions



Technical Data

Guaranteed values	XS3DU Dual Range	
Maximum capacity	3.1 g	
Readability	0.01 mg	
Maximum capacity fine range	0.8 g	
Readability fine range	0.001 mg	
Repeatability std. range – at nominal load	0.006 mg (3 g)	
- at low load (measured at)	0.005 mg (0.2 g)	
Repeatability fine range — at nominal load	0.001 mg (0,8 g)	
- at low load (measured at)	0.0008 mg (0.2 g)	
Linearity	0.004 mg	
Eccentric load deviation (test load)1)	0.005 mg (2 g)	
Typical values ²⁾		
Repeatability (sd)	0.0005 mg+1.2x(10 ⁻⁷)·R_gr	
Differential linearity deviation (sd)	$\sqrt{2 \times (10^{-12}) g \cdot R_n t}$	
Differential eccentric load deviation (sd)	1.2 x (10 ⁻⁶)·R_nt	
Sensitivity offset (sd) ³⁾	3 x (10 ⁻⁶)⋅R_nt	
Minimum weight* (@ U=1%, 2 sd)	0.1 mg + 2.4 x (10 ⁻⁶)·R_gr	
Settling time	< 6 s	
ettling time (fine range) < 10 s		

1) According to OIML R76	2) Can be used for the estimation of uncerta	inty, sd: standard deviation,
R_gr: gross weight, R_nt: r	net weight (sample weight), a: year (annum)	3) In the temperature range
10 30°C		

^{*}Repeatability and minimum weight can be improved and affected by the following measures: — choice of suitable weighing parameters, — moving to better location, — using smaller tare containers

System options	Part no.
Filter weighing kit	
Filter weighing kit up to Ø 110 mm	00211227
lonizer option	
Optional U electrode, small	11140161
Power supply for universal AntiStatic kit	11107766
Further options	
Funnel set	00229265
RS-P42 printer	00229265
Weighing table for Micro Balances	11138044

www.mt.com/micro

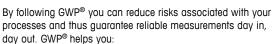
For more information



Quality certificate ISO 9001 Environment certificate ISO 14001 Worldwide service

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- Choose the right balance for the job
- Optimize the periodicity of your calibrations
- Reduce costs and testing efforts
- Comply with current regulations

