

Ex Zone 2 Weighing



Excellence Balances for Ex Zone 2

Accurate

Reliable

Efficient

Maximum Safety and Highest Accuracy
in Hazardous Environments

METTLER TOLEDO

Uncompromised Safety and Efficiency in Hazardous Areas

For industrial applications in potentially explosive environments, e.g. gas filling, METTLER TOLEDO offers safe weighing solutions: Excellence XS Balances for ATEX Zone 2 guarantee maximum user safety in hazardous areas. The modular balances and comparators provide uniquely high accuracy from 200 g up to 150 kg.



Hazardous area: ATEX II 3G EEx nl IIC T5 (Gas)

High Accuracy



The XS204SX offers the high performance of an analytical balance. The unique compact balance for Ex Zone 2 allows easy access to the weighing chamber. To save space, the windshield doors do not protrude behind the balance.

Safe Industry Workplaces



Offering rugged overload protection, the soil resistant platforms are built for hard work. The standalone platforms are available in several different sizes.

Top Choice for Gas Filling



Comparators for Ex Zone 2 fulfill the challenging demands of high accuracy applications in hazardous environments. These comparators provide the highest accuracy for weighing in the range from 2300 g to 150 kg.



Flexible Terminals
 Industrial terminals, such as the IND690xx offer both, flexibility and security. The rugged IND690xx Weighing Terminal allows the operation of up to 4 stand alone weighing platforms. Its certification according to the ATEX directive 94/9/EC ensures full safety with globally approved equipment for explosive environments.



Safe documentation
 The balance's Bluetooth option allows communication with a printer up to 10 m away outside the hazardous zone.



User-friendly Touchscreen
 The convenient touchscreen display and graphical user interface makes operation safe and simple.

Automatic data handling

LabX software supports hands-free weighing applications in hazardous zones. Automatic weight detection and automatic data handling ensure results are secure, perfectly stored and easily sent to a printer.



ATEX Zone 2
 Intended use for hazardous area zone 2 (category 3G).



MonoBloc ^{Highspeed} **technology**
 Innovative weighing cell for peak weighing performance.



Chemical resistant
 Built of solid metal, resistant to chemicals, for smooth daily operation.



FACT Advanced
 Fully automatic internal adjustment.



GxP-compliant documentation
 Seamless documentation, full traceability.



Connectivity
 RS232C built-in, slot for second interface (4 options available, incl. Bluetooth and Ethernet).

Excellence Balances for Ex Zone 2

Technical Data	XS204SX	XS603SX	XS1003SX	XS5003SXDR
Stand alone weighing platform	X204SX	X603SX	X1003SX	X5003SXDR
Maximum capacity; fine range	220 g; —	610 g; —	1010 g; —	5.1 kg; —
Readability; fine range	0.1 mg; —	1 mg; —	1 mg; —	10 mg; —
Repeatability; fine range ^{1) 2)}	0.1 mg; —	0.9 mg; —	0.8 mg; —	6 mg; —
Linearity deviation	0.2 mg	2 mg	2 mg	6 mg
Sensitivity offset (test weight)	1 mg (200 g)	4.5 mg (600 g)	5 mg (1 kg)	20 mg (5 kg)

Typical values

Repeatability; fine range ²⁾	0.04 mg; —	0.5 mg; —	0.4 mg; —	4 mg; 0.6 mg
Linearity deviation	0.13 mg	0.7 mg	0.7 mg	1 mg
Sensitivity offset (test weight)	0.8 mg (200 g)	2.4 mg (600 g)	3 mg (1 kg)	10 mg (5 kg)
Minimum weight (USP); fine range	120 mg; —	1500 mg; —	1200 mg; —	12 g; —
Minimum weight; fine range ³⁾	8 mg; —	100 mg; —	80 mg; —	800 mg; —
Settling time	1.5 s	1.5 s	1.5 s	2 s

Dimensions

Balance dimensions ⁴⁾	263x453x322	198x366x276	214x260x363	214x366x363
Weighing pan dimensions ⁵⁾	78x73	127x127	127x127	127x127

Technical Data	XS2004SX	XS4002SX	XS6002SX	XS4001SX
Stand alone weighing platform	—	X4002SX	X6002SX	X4001SX
Maximum capacity; fine range	2.3 kg; —	4.1 kg	6.1 kg	4.1 kg
Readability; fine range	0.1 mg; —	10 mg	10 mg	100 mg
Repeatability; fine range ^{1) 2)}	0.35 mg; —	8 mg	8 mg	80 mg
Linearity deviation	1 mg	20 mg	20 mg	60 mg
Sensitivity offset (test weight)	10 mg (2 kg)	60 mg (4 kg)	60 mg (6 kg)	240 mg (4 kg)

Typical values

Repeatability; fine range ²⁾	0.2 mg; —	4 mg; —	4 mg; —	40 mg
Linearity deviation	0.7 mg	7 mg	7 mg	20 mg
Sensitivity offset (test weight)	1.6 mg (2 kg)	32 mg (4 kg)	30 mg (6 kg)	160 mg (4 kg)
Minimum weight (USP); fine range	0.6 g; —	12 g; —	12 g; —	120 g; —
Minimum weight; fine range ³⁾	40 mg; —	800 mg; —	800 mg; —	8 g; —
Settling time	10 s	1.2 s	1.2 s	0.8 s

Dimensions

Balance dimensions ⁴⁾	194x366x96	194x366x96	194x366x96	194x366x96
Weighing pan dimensions ⁵⁾	120 ø	170x205	170x205	190x223

Technical Data	XS32001LX	XS64001LX	XS32000LX	XS64000LX
Stand alone weighing platform	X32001LX	X64001LX	—	—
Maximum capacity; fine range	32.1 kg; —	64.1 kg; —	32.1 kg; —	64.1 kg; —
Readability; fine range	100 mg; —	100 mg; —	1000 mg	1000 mg
Repeatability; fine range ^{1) 2)}	80 mg; —	100 mg; —	600 mg; —	600 mg; —
Linearity deviation	300 mg	500 mg	600 mg	600 mg
Sensitivity offset (test weight)	960 mg (32 kg)	1280 mg (64 kg)	1920 mg (32 kg)	1920 mg (64 kg)

Typical values

Repeatability; fine range ²⁾	40 mg; —	40 mg; —	400 mg; —	400 mg; —
Linearity deviation	200 mg	320 mg	400 mg	400 mg
Sensitivity offset (test weight)	320 mg (32 kg)	380 mg (64 kg)	650 mg (32 kg)	650 mg (64 kg)
Minimum weight (USP); fine range	120 g; —	120 g; —	1200 g; —	1200 g; —
Minimum weight; fine range ³⁾	8 g; —	8 g; —	80 g; —	80 g
Settling time	1.5 s	1.8 s	1.2 s	1.5 s

Dimensions

Balance dimensions ⁴⁾	360x404x130	362x404x131	360x404x130	362x404x131
Weighing pan dimensions ⁵⁾	360x280	362x282	360x280	362x282

Technical Data	XS26003LX	XS64003LX	XS155KSK
Maximum capacity; fine range	26.1 kg; —	64.1 kg; —	150 kg; —
Readability; fine range	1 mg; —	5 mg; —	0.05 g
Repeatability; fine range ^{1) 2)}	5 mg; —	40 mg; —	0.15 g (150 kg)
Linearity deviation	25 mg	50 mg	2 g
Sensitivity offset (test weight)	240 mg (24 kg)	960 mg (64 kg)	1.5 g (150 kg)

Typical values

Repeatability; fine range ²⁾	2 mg; —	4 mg; —	0.07 g (150 kg)
Linearity deviation	17.5 mg	35 mg	1.0 g
Sensitivity offset (test weight)	48 mg (24 kg)	260 mg (64 kg)	0.5 g (150 kg)
Minimum weight (USP); fine range	6 g; —	12 g; —	150 g
Minimum weight; fine range ³⁾	400 mg; —	0.8 g; —	10 g
Settling time	10 s	10 s	12 s

Dimensions

Balance dimensions ⁴⁾	362x410x185	362x410x185	800x600x130
Weighing pan dimensions	258 mm (ø)	258 mm (ø)	500 mm (ø)

All models are available in verified versions.

¹⁾ at nominal load; ²⁾ standard deviation; ³⁾ U = 1%, k = 2; ⁴⁾ W x D x H, mm; ⁵⁾ W x D, mm

www.mt.com/XS-Ex



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GWP®

Good Weighing Practice™

The internationally recognized GWP® guideline reduces weighing risks and helps to:

- identify the correct balance for the weighing task
- reduce costs by optimizing testing procedures
- ensure compliance with regulations

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