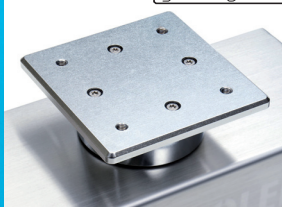Automated Precision Weighing

Intrinsically Safe Weighing Modules WM-Ex

Designed for Automation

Fast
Typical stabilization times below 300 milliseconds; 19 update values per second.
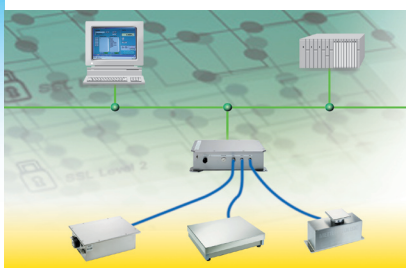
MonoBloc inside

Rugged
Proven METTLER TOLEDO MonoBloc technology. Stainless steel housing with smooth surface - IP66 in wash-down configuration, trouble-free cleaning with water jet. Built-in overload and torsion protection.

High-precision
Accurate to 0.1 mg, even in industrial environments, thanks to individual selection of filter characteristics and stability criteria. Adjustment with built-in or external adjustment weight.

Direct
Efficient data transfer to process control systems via PSU power supply module. Up to three weighing modules connectable to a single power supply module. Optional Profibus DP, DeviceNet or Ethernet communication via accessory modules.

Ex   **FM APPROVED**   **CSA®**

For use in automated processes in hazardous environments (Zone 1; Class I, Div. 1)

Specially developed for use in automated processes. A professional solution for new horizons in dispensing and weight determination.

WM-Ex line - the sum of all advantages:
- Weighing range from 120 g to 6 kg
- 0.1 mg readability (WM124)
- Directly connects to control systems
- Increases speed and accuracy of filling processes
- Optimizes the use of valuable materials
- Enhances process safety by increasing precision
- Reduces cycle times
- Increases production volume
- Minimizes downtimes

METTLER TOLEDO

Digital precision weighing modules with ATEX 95 and FM compliance

Model	WM124X	WM123X	WM503X	WM3002X	WM6002X
Maximum capacity	121 g	121 g	510 g	3100 g	6100 g
Readability	0.0001 g	0.001 g	0.001 g	0.01 g	0.01 g
Typical stabilization time *)	< 0.4 s	< 0.3 s	< 0.3 s	< 0.3 s	< 0.3 s
with required weighing tolerance of	0.001 g	0.01 g	0.01 g	0.1 g	0.1 g
Linearity (10 ... 30 °C, typ.)	+/- 0.0004 g	+/- 0.001 g	+/- 0.002 g	+/- 0.03 g	+/- 0.04 g
Repeatability (s) (good conditions, typ.)	0.0001 g	0.001 g	0.001 g	0.01 g	0.01 g
Dimensions of load plate	60 x 60 mm	60 x 60 mm	60 x 60 mm	80 x 80 mm	80 x 80 mm

*) Weighing time = stabilization time plus (adjustable) observation time

General technical data

Protection type according to ATEX 95:	II 2 G EEx ib IIC T4
FM approval for:	Class I, Division 1, Groups A, B, C, D
CSA:	Intrinsically safe Exi, Class I, GP A, B, C, D, Ex ib IIC T4
Dimensions of weighing module:	Length 240 mm; width 85 mm; height of platform above mounting surface 126 mm
Degree of protection:	IP44; IP66 in wash-down configuration
Operating temperature range:	+ 10...30 °C
Allowable ambient temperature range:	+ 5...40 °C
Data transmission rate:	Up to 19 update values per second
Power supply:	PSU/TBrick-Ex/RS, 100-240 V AC, max. 510 mA
Data interfaces:	RS232 via PSU
	Profibus DP, DeviceNet and Ethernet with additional modules (accessories)

Standard features

- Built-in overload protection
- Stainless steel housing
- Load plate with double-labyrinth seal
- Built-in adjustment weight
- Detailed operating instructions
- CD with configuration and visualization software
- Subtractive preload
- 5 m cable included in delivery

Accessories

- Longer connection cables WM-Ex to PSU
- Profibus module (Profibus DP)
- DeviceNet module
- Ethernet module
- Adjustment weights
- Level indicator

Options

- Wash-down configuration (IP66)

System configurations