Intrinsically Safe Weighing Modules WM-Ex

Designed for Automation



Fast

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

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.



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



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.

Digital precision weighing modules with ATEX 95 and FM compliance





• Wash-down configuration (IP66)

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 mountin	ng surface 126 mm
Degree of protection:	IP44; IP66 in wash-down configuration	
Operating temperature range:	+ 1030 °C	
Allowable ambient temperature range:	+ 540 °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 (acc	cessories)
Standard features	Accessories	Options

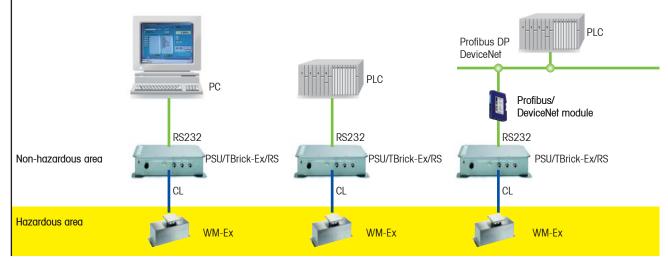
Standara teatures

- 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

System configurations





Quality certificate ISO 9001 Environment certificate ISO14001 Worldwide service network

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For more information: www.mt.com/ModuloWMEx www.mt.com/OEM-weighing