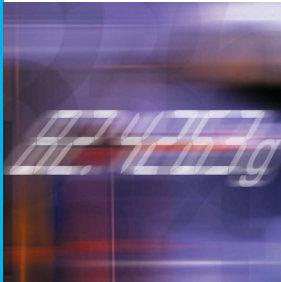# High-Precision Weigh Modules WM
Designed for Automation

Fast
Split-second stabilization times even in harsh environments, 38 updates per second.

MonoBloc inside

Rugged
Proven METTLER TOLEDO MonoBloc technology. FDA-approved stainless steel housing with smooth surface. Optional water and dust protection of IP66 for integration in wash-down applications. Built-in overload and torsion protection.

High precision
Accurate to 0.1 mg, even in industrial environments, state of the art signal processing. Adjustment with built-in or external adjustment weight.

PC/PLC

RS232 RS422 | e-Link Ethernet | Profibus DP DeviceNet | IND690 Terminal | Simatic S7 + Siwarex FTA

Weighing sensor

Direct
Direct data transfer via RS232 or RS422 to your PLC. Optional communication via accessory modules with Profibus DP, DeviceNet or Ethernet TCP/IP. Can be directly connected to SIWAREX FTA. Detailed documentation and commissioning software included.
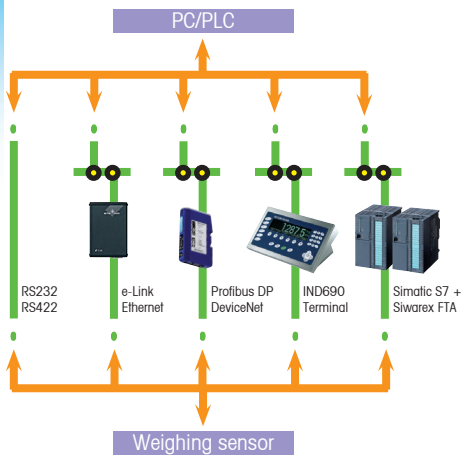
Specially developed for use in automated processes.

A professional solution for new horizons in dispensing and weight determination.

The WM product line combines the precision and quality of high-tech weighing sensors with modular, easy-to-integrate design and flexible connectivity.

Also available for applications in Ex zone 2.

Ex

WM line - the sum of all advantages:
- Weighing range from 120 g to 6 kg
- 0.1 mg readability (WM124)
- Directly connects to control systems
- Increased speed and accuracy of filling processes
- Optimized use of valuable materials
- Enhanced process safety
- Reduced cycle times
- Increased production volume
- Minimized downtimes

METTLER TOLEDO

WM Weigh Module Specifications

Model	WM124	WM123	WM503	WM3002	WM6002
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	< 0.2 s	< 0.2 s	< 0.2 s	< 0.2 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)	0.0001 g	0.001 g	0.001 g	0.01 g	0.01 g
Dimensions of load plate (standard types)	⌀ 45 mm	⌀ 45 mm	⌀ 55 mm	80 x 80 mm	80 x 80 mm
Dimensions of load plate (Ex zone 2)	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

Dimensions of weighing module:	Length 240 mm; width 85 mm; height of platform above mounting surface 126 mm
Degree of protection:	IP54; IP66 in wash-down configuration
Operating temperature range:	+ 10...30 °C
Allowable ambient temperature range:	+ 5...40 °C
Data transmission rate:	Up to 38 updates per second
Data interfaces:	RS 232 and RS 422, direct connection - without terminal,
	Profibus DP, DeviceNet and Ethernet TCP/IP, with optional accessory modules

Optional:

Protection type according to ATEX 95:	II 3G EEx nAL IIC T6

Standard features

- Stainless steel housing
- Built-in overload protection
- Load plate with double-labyrinth seal
- Equipped for below-the-balance weighing
- Built-in adjustment weight
- Subtractive preload
- RS232 / RS422 interface
- Digital inputs/outputs
- Detailed operating instructions
- CD with configuration and visualization software

Accessories

- Various load plates
- Various connecting cables
- Connection modules (recommended)
- Profibus DP module
- DeviceNet module
- Ethernet TCP/IP module
- Digital displays
- Adjustment weights
- Level indicator
- Startup set

Options

- Wash-down configuration
- Certified versions for Ex zone 2

Typical configurations

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