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

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

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

General technical data

- Protection type according to ATEX 95: II 2 G Ex e 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

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

Non-hazardous area

- RS232
- PSU/TBrick-Ex/RS
- CL

Hazardous area

- WM-Ex

For more information:

www.mt.com/ModuleWMEx
www.mt.com/OEM-weighing