High-Precision Weigh Modules WM
Designed for Automation

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

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.

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.

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

Direct
Direct data transfer via RS232 or RS422 to your PLC. Optional communication via accessory modules with Profinet, DeviceNet or Ethernet TCP/IP. Can be directly connected to SIWAREX FTA. Detailed documentation and commissioning software included.
WM Weigh Module Specifications

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>WM124</th>
<th>WM123</th>
<th>WM503</th>
<th>WM3002</th>
<th>WM6002</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>0.0001 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; 0.2 s</td>
<td>&lt; 0.2 s</td>
<td>&lt; 0.2 s</td>
<td>&lt; 0.2 s</td>
</tr>
<tr>
<td>with required weighing tolerance of</td>
<td>0.001 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)</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 (standard types)</td>
<td>∅ 45 mm</td>
<td>∅ 45 mm</td>
<td>∅ 55 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**

- 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

**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

**Typical configurations**

- PLC or PC
- RS232 or RS422
- ConModule
- PC for configuration and service
- Weighing module
- Connecting cable
- Profibus/DeviceNet module
- RS232 or RS422
- ConModule
- PC for configuration and service
- Weighing module
- Connecting cable

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For more information:
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