The series MTC-HL-FS Weigh Cells cover a weighing range up to 250 g. They have been specifically designed as compact sensor components and are especially suited for applications in the pharmaceutical industry.

As a ready-for-connection installation component, the Weigh Cell already supplies final weight values via a CAN interface as a standard feature. The integrated software filters can be configured in multiple ways and thus allow optimal adaptation of the weighing system to the relevant local conditions. The Weigh Cells extensive command set enables easy control engineering integration.

Supplemented by a large number of options, as well as different weighing and dead load ranges, a wide variety of customer-specific versions can be implemented in addition to the standard.

When it comes to the number of tracks and the centre-line distance in conjunction with the weighing range and the design, all MTC-HL-FS systems are always customer specific and individual.

You need an individual solution? Please contact us.

/ TO BE USED IN
- Filling machines for vials, syringes, etc.
- Packaging machines
- Capsule and tablet weighing machines

/ FEATURES
- Weighing range up to 250 g
- Additive dead load range up to 100 g
- Active Vibration Compensation (AVC)
- High or flat type structured shape
- Protection class up to IP44
- Binary I/O channels with customer-specific functions
- Interface 1: CAN, RS 422
- Interface 2: RS 232 for service and configuration
- Sampling rate 1 ms
**OPTIONS**

- **Option 10:** RS 422 instead of CAN interface
- **Option 11:** Bus operation
- **Option 12:** Higher display resolution
- **Option 13:** Binary I/O channels (4-fold)
- **Option 14:** Filling algorithm
- **Option 25:** Dead load compensation
- **Option 32:** Built in test weight for high structured shape
(Flat structured shape on request)

With the optional CFI (CAN-Fieldbus-Interface) it is possible to connect to a variety of industrial fieldbus systems.

**Please see specifications on our [website](#).**

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**WEIGH CELL TYPE**

<table>
<thead>
<tr>
<th></th>
<th>MTC-HL-250/100-FS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighing range</td>
<td>250 g</td>
</tr>
<tr>
<td>Electrical adjustable dead load range</td>
<td>50 - 100 g</td>
</tr>
<tr>
<td>Display value (d)</td>
<td>0.002 g</td>
</tr>
<tr>
<td>Display value (d) with higher resolution (Option)</td>
<td>0.001 g</td>
</tr>
<tr>
<td>Linearity ≤</td>
<td>± 0.002 g</td>
</tr>
<tr>
<td>Repeatability (S) ≤</td>
<td>0.001 g</td>
</tr>
<tr>
<td>Maximum dimension of weighing platform</td>
<td>40 mm</td>
</tr>
<tr>
<td>Settling time (on 1‰ of final weighing range value)</td>
<td>&lt; 200 ms</td>
</tr>
<tr>
<td>Protection class of the Weigh Cell</td>
<td>IP44</td>
</tr>
<tr>
<td>Temperature range</td>
<td>+5 °C to +30 °C</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 V DC, ± 5%, 0.5 A</td>
</tr>
<tr>
<td>Interface 1</td>
<td>CAN, RS 422</td>
</tr>
<tr>
<td>Interface 2</td>
<td>RS 232, 115200/8/1/odd</td>
</tr>
<tr>
<td>Housing material</td>
<td>Aluminum hard coated</td>
</tr>
</tbody>
</table>

1) Depends on the preference settings and on setup and ambient conditions of the system
The absolute repeatability is +/- 3 s
2) Weighing time = settling time plus (adjustable) measuring time
3) Temperature range: +10 °C to +30 °C
4) From weighing platform mounting bolt
Design examples

All measurements in mm  Subject to technical modifications