The series SW-D-FS Weigh Cells cover a weighing range up to 2,000 g. They have been specifically designed as a compact sensor component and are especially suited for installation in multiline applications or anywhere that small sizes are in demand. Due to the GMP-compliant design, the Weigh Cells are also suited for use in the pharmaceutical industry. The docking station enables tool-free replacement of the Weigh Cell for cleaning or servicing purposes.

As a ready-for-connection installation component, the Weigh Cell already supplies final weight values via a CAN interface as standard. The integrated software filters can be configured in many 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 with a large number of options, the Weigh Cells can also meet very specific requirements.

You need an individual solution? Please contact us.

/ TO BE USED IN
- Filling and packaging machines
- Checkweighers (for different branches like food, pharmaceuticals, chemical and cosmetics)

/ FEATURES
- Weighing range up to 2,000 g, covered by 7 models
- Additive dead load range up to 2,000 g
- Docking station
- Slim construction
- Multiline applications starting from 72 mm centerline distance
- 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 2:** Forceless connection of electrical aggregates
- **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

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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<table>
<thead>
<tr>
<th>Weigh Cell Type</th>
<th>SW 20/150-D-FS</th>
<th>SW 50/300-D-FS</th>
<th>SW 100/400-D-FS</th>
<th>SW 200/600-D-FS</th>
<th>SW 500/1000-D-FS</th>
<th>SW 1000/1000-D-FS</th>
<th>SW 2000/2000-D-FS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighing range</td>
<td>20 g</td>
<td>50 g</td>
<td>100 g</td>
<td>200 g</td>
<td>500 g</td>
<td>1,000 g</td>
<td>2,000 g</td>
</tr>
<tr>
<td>Electrical adjustable dead load range</td>
<td>150 g</td>
<td>300 g</td>
<td>400 g</td>
<td>600 g</td>
<td>1,000 g</td>
<td>1,000 g</td>
<td>2,000 g</td>
</tr>
<tr>
<td>Verification scale interval (e)</td>
<td>0.002 g</td>
<td>0.005 g</td>
<td>0.01 g</td>
<td>0.02 g</td>
<td>0.05 g</td>
<td>0.1 g</td>
<td>0.2 g</td>
</tr>
<tr>
<td>Display value (d)</td>
<td>0.0002 g</td>
<td>0.00005 g</td>
<td>0.001 g</td>
<td>0.002 g</td>
<td>0.005 g</td>
<td>0.01 g</td>
<td>0.02 g</td>
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<tr>
<td>Display value (d) with higher resolution (Option)</td>
<td>0.00005 g</td>
<td>0.0001 g</td>
<td>0.0002 g</td>
<td>0.0005 g</td>
<td>0.001 g</td>
<td>0.002 g</td>
<td>0.005 g</td>
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<tr>
<td>Linearity ≤</td>
<td>± 0.0001 g</td>
<td>± 0.0002 g</td>
<td>± 0.0004 g</td>
<td>± 0.001 g</td>
<td>± 0.002 g</td>
<td>± 0.004 g</td>
<td>± 0.01 g</td>
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<tr>
<td>Repeatability (S)</td>
<td>0.000005 g</td>
<td>0.00001 g</td>
<td>0.00002 g</td>
<td>0.00005 g</td>
<td>0.0001 g</td>
<td>0.0002 g</td>
<td>0.0005 g</td>
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<tr>
<td>Maximum dimension of weighing platform</td>
<td>80 x 60 mm</td>
<td>80 x 60 mm</td>
<td>100 x 80 mm</td>
<td>150 x 100 mm</td>
<td>150 x 100 mm</td>
<td>150 x 100 mm</td>
<td>200 x 100 mm</td>
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<tr>
<td>Settling time (on 1% of final weighing range value)</td>
<td>&lt; 120 ms</td>
<td></td>
<td></td>
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<tr>
<td>Protection class of the Weigh Cell</td>
<td>IP44</td>
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<td></td>
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<tr>
<td>Temperature range</td>
<td>+5 °C to +40 °C</td>
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<td></td>
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<tr>
<td>Power supply</td>
<td>24 V DC, ± 5%, 0.5 A</td>
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<td></td>
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<tr>
<td>Weight</td>
<td>approx. 5,000 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Interface 1</td>
<td>CAN, RS 422</td>
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<tr>
<td>Interface 2</td>
<td>RS 232, 115200/8/1/odd</td>
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<td></td>
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<tr>
<td>Housing material</td>
<td>Aluminum hard coated</td>
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<td></td>
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</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
All measurements in mm  Subject to technical modifications
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