Tank Scale Calibration
RapidCal is the ideal calibration method for tank, reactor, hopper and silo scales. The method is traceable and certifiable and yet is fast, thus minimizing production downtime. The equipment is portable and poses no risk of contamination to the scale.

Calibrate Faster
RapidCal equipment is highly portable and requires minimal preparation time and effort in use. Loading and calibration are done quickly, resulting in lower downtime over the course of a year.

Higher Accuracy
The calibration force applied by hydraulic cylinders is measured by highly accurate reference load cells whose calibration is traceable to test weight standards. The process pulls down on the scale identically to normal weighing, thus automatically accounting for piping effects.

Compliance
Recalibration of regular intervals with issuance of traceable calibration certificates ensures compliance with quality systems with no extra effort. Industry regulations and regular audits can also be fulfilled with RapidCal.

RapidCal
Quick and Accurate
Gone are the days of having to rely on time-consuming and expensive calibration methods with uncertain accuracy and traceability results. The new and innovative RapidCal method from METTLER TOLEDO offers an economical and fast calibration method that is traceable, and operates without using test weights or purified liquids, or the risk of scale contamination.

RapidCal features:
• Accurate (0.1%) full-scale calibration in the range 1t - 32t
• Quick calibration process leading to minimal downtime
• No bulky test weights required
• Purified water and calibrated flowmeter not required
• Tank is not opened, eliminating risk of contamination
• Tank is exercised identically to the weighing process; piping effects are automatically compensated for
• Traceability assured by METTLER TOLEDO
• Compatibility with internal Quality Systems
• Regular recalibration as part of the Quality System
• Process stability assured with minimum effort

METTLER TOLEDO
Specifications:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Scale Capacity</td>
<td>1 – 32 tons</td>
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<tr>
<td>Calibration uncertainty, %</td>
<td>0.1% (piping forces accounted for)</td>
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<tr>
<td>Traceability</td>
<td>Complete traceability chain, starting with certified METTLER TOLEDO test weights</td>
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<tr>
<td>Certifiable</td>
<td>Yes</td>
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<tr>
<td>Calibration Temperature Range</td>
<td>5 to 35 °C</td>
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<tr>
<td>Scale Type</td>
<td>Tank, reactor vessel, hopper, silo</td>
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<tr>
<td>Scale Mounting</td>
<td>Compression or tension scales mounted on concrete floors, steel structures or mezzanine floors</td>
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<tr>
<td>Maximum Scale Deflection</td>
<td>25 mm</td>
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<tr>
<td>Calibration System</td>
<td>Hydraulic cylinders with S-type reference load cells and IND 780 terminal. Hydraulic system uses food-grade oil.</td>
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<tr>
<td>Hazardous area</td>
<td>Div. 2 (FM), Zone 2/22 (ATEX)</td>
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RapidCal Setup:

Suitable scale types for RapidCal (examples):

- Compression scale, on mezzanine floor:
- Compression scale, on concrete floor:
- Tension scale:

- Scale attachment points
- Reference S-type load cells
- Hydraulic cylinders
- Reference terminal, IND780
- Hydraulic pump