



Turn your process vessel into a precision scale Load Disc - Compression Cell Systems

In many processes, precise level measurement is difficult using conventional methods.

The Load Disc weighing systems dynamically measure and output the content based on the weight and precisely indicate even the smallest changes. They are firmly fastened between the container feet and the foundation. They thus enable highly accurate content monitoring in all types of process or storage containers, including, for example, vessels with mixing or stirring devices.

Due to their compact, sanitary design, they can be cleaned according to sanitary requirements in food or life science applications.

Simple content control for all vessels

- **Dependable, high-precision measurement:** The solid, tightly bolted mounting under the load-bearing supports ensures the stability and precise measurement of all containers, even
 - agitated or blending vessels under operation,
 - storage hoppers with uneven loading,
 - outdoor tanks under wind load,
 - horizontal storage tanks,
 and are tilt and even earthquake proof.
- **Unique mounting versatility:** Various, three-dimensional adaptive mounting systems allow for:
 - customization to container type, process and environmental conditions,
 - floor misalignment up to 3°
 - compensation of movements due to thermal expansion, vibrations, or tilting loads.
- **Flexible:** Precise measurement is also possible for interchangeable containers, e.g. for ingredients, with corresponding gusset supports.
- **Temperature independent:** Unlike level sensors, thermal or density changes do not affect the precision of the measurement.
- **You can rely on it:** Kistler-Morse pioneered load cell technology. In many markets, this is still the standard for load and content measurement for a wide range of inventory and process tanks and vessels.



Technical Specifications at a glance

Firmly bolted, sanitary load cells

- **Applications:**
 - Blending, mixing, and stirring vessels
 - Bulk tanks and storage hoppers
 - For all types of dry products and liquids, including corrosive media
 - Swap vessels for mixing and blending
 - For interior and exterior installations
 - For sanitary and non-sanitary industries
- **Measuring accuracy up to 0,03%**
- **Compact design:** device height from 69 mm
- **Operating temperature:** -34... to 121 °C (-30 to 250 °F)
- **For loads from 100 kg to 45.000 kg**
- **Long service life** due to 4-fold overload protection
- **Easy installation** with mounting kit and connection box
- **Control units** for 1 to 120 containers

LD360S - The Sanitary Specialist

- Ideal for hygiene sensitive areas with intensive cleaning
- Polished surface and sanitary design without critical gaps or orifices that are difficult to clean
- Measuring accuracy up to 0.08%
- High signal output for cable length up to 600 m, thus the electronics can be installed outside the sanitary area
- For loads from 450 to 11.500 kg
- Low height from 69 mm, thus low tank center of gravity
- Protection class Nema 6p / IP 67
- Control units for 1 to 120 vessels
- Virtually maintenance-free



LD3 - The Versatile Allrounder

- LD3 features the same specifications as LD360S, but for applications with reduced hygienic requirements
- Ideal for all conventional dry and wet applications
- For loads from 450 to 11.500 kg
- Protection class Nema 6p / IP 67



LD3XI / LD3XIC - The Process Expert

- Ideal for process, stirring and blending vessels in food and industrial applications
- The LD3XIC consists of a LD3XI Sensor integrated into an extremely robust cage, which compensates for e.g. static imbalances of the vessels and thermal expansion
- LD3XI for loads from 100 to 2.500 kg
- LD3XIC (with cage) for loads from 5000 to 11.500 kg
- Both versions optionally with ATEX approval



The selection of the most suitable load disc model and mounting system depends on many factors. We will be happy to advise you in detail on sensor selection, installation, and commissioning. Simply contact us at sales@anderson-negele.com.