Strain Systems’ SOLO™ is a turnkey, nonintrusive, and continuous silo weight and level measurement solution that includes intelligent single-vessel electronics, junction boxes, and our patented StrainCell™ sensors. These latest-generation, temperature-compensated strain sensors measure weight and level with unmatched accuracy at the nanoscale level. The StrainCell design mechanically compensates measurement errors caused by changing ambient temperature.

StrainCell technology, coupled with Strain Systems’ decades of application engineering knowledge, results in unique silo weight and level measurement solutions matched to the structural requirements of each silo. Providing 1–3% of full-scale accuracy, Strain Systems SOLO is a perfect alternative to costly load cell weight measurement solutions. SOLO comes in two models: SOLO Beam model, optimized for the specific requirements of legged silos, and SOLO Skirted model, optimized for skirted silos.

SOLO intelligent electronics continuously reads signals from sensors, converting and displaying them as weight or level measurement readings. The electronics can be controlled remotely via a digital interface. Optional Ethernet, RS-232/485, USB, and other analog interfaces are available to integrate the SOLO as the ultimate inventory monitoring solution into enterprise networks for ERP, MRP, SAP, and other automatic control and data management applications.

With its simple installation, easy calibration, and low-maintenance operation, Strain Systems SOLO offers the best value in its class for turning silos to scales™.
SOLO™ Beam

SOLO Beam Model includes:
- 4 StrainCell™ sensors
- Intelligent electronics
- 4 junction boxes

SOLO™ Skirted

SOLO Skirted Model includes:
- 6 StrainCell™ sensors
- Intelligent electronics
- 4 junction boxes

TECHNICAL SPECIFICATIONS

- **Sensitivity**
  - 0.775 mV/V/1000 psi
  - (0.775 mV/V/0.7 kg/mm²)
- **Nonlinearity**
  - 1% of full-scale output
- **Repeatability & hysteresis**
  - 0.05% of full-scale output
- **Operating temperature range**
  - –30° to +150°F (–34° to +66° C)
  - 0° to 100° F temperature compensated

ACCESSORIES

- Startup installation kit
- Consumables kit

OPTIONAL

- Ethernet interface
- RS-232/485 interface
- Alarm relays interface
- Analog output interface
- USB interface