

Tank Weighing & Center of Gravity Load Cells

Industry: Test and Measurement, Industrial Automation

Summary

Customer Need / Challenge

- Customer needs to monitor the amount of material in a tank by weight and locate the center of gravity.

Interface Solution

- Using Interface Model A4200 Zinc Plated or A4600 Stainless Steel Weigh-check Load Cells, along with Interface Instrumentation, Interface Inc. provided a solution that monitors the amount of material by weight in their tank while locating the Center of Gravity.

Results

- Tank weights are monitored so refilling, dispensing or emptying takes place safely while monitoring center of gravity.

Materials

- Model A4200 Zinc Plated or Model A4600 Stainless Steel Weigh-check Load Cells.
- Model 1280 Programmable/Controller.
- Setup & Scaling of Load Cells and Instrument by Interface, Inc.

How It Works

1. Model A4200 or A4600 Weigh-check Load Cell is installed between the support arm of tank and support pedestal of tank. The Weigh-check Load Cell will measure the load as material is loaded into or unloaded out of the tank.
2. Model 1280 Programmable/Controller will use weight measurements and display the weight for each leg and corresponding total weight.
3. Model 1280 Programmable/Controller will use weight measurements in conjunction with programmed formula to calculate the relevant Center of Gravity.

