

Tank Weighing and Center of Gravity Load Cell

Industry: Test and Measurement, Industrial Automation

Summary

Customer Challenge

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

Interface Solution

Using Interface's A4200 Zinc Plated or A4600 Stainless Steel Weigh-check Load Cells, along with Interface Instrumentation, Interface 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

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

How It Works

1. 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. 1280 Programmable Weight Indicator and Controller will use weight measurements and display the weight for each leg and corresponding total weight.
3. 1280 Programmable Weight Indicator and Controller will use weight measurements in conjunction with programmed formula to calculate the relevant Center of Gravity.

