

Monitor load cells for weighing containers

APPLICATION A139

Type of Company: Cargo Handling Operation

Location: Georgia

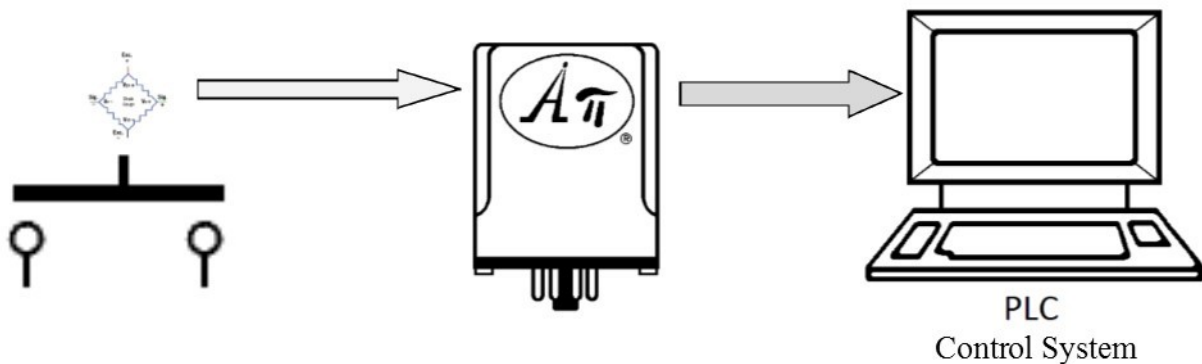
A container crane (also container handling gantry crane or ship-to-shore crane) is a type of large dockside gantry crane found at container terminals for loading and unloading intermodal containers from container ships.

This customer is a leader in the operation of modern seaside shipping terminals who specialize in the handling of container, reefer, break-bulk and RoRo cargoes.



The Engineering Issue

- They are using load cells on the cranes to weigh cargo but require a PLC interface device that is; 1) “hot-swappable;” 2) Field range-able and; 3) Easy to calibrate.



The engineer used an API 4058 G. The API 4058 G provides the excitation power to the load cell and is fully field range-able for the excitation supply, sensitivity (output from the transducer) and DC current output. A 4-20mA signal is sent for indication and to ensure proper cargo weight. The unit is hot swappable for minimum system downtime.

Problem. Solved.