

API-Cecom Group *n'fo*

Technical & Application Notes

Application: Monitor load cells for weighing containers

Type of Company: Cargo handling

Location: Georgia

Problem: The customer is a leader in the operation of modern seaside shipping terminals who specializes in the handling of container, reefer, break-bulk and RoRo cargoes. They are using load cells on the large cranes to weigh cargo but they required an interface device for the load cells that is hot swappable, field range-able and easy to calibrate for the control system.

Solution: API furnished the customer 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. The unit is hot swappable so any system down time can be eliminated. The output 4-20mA signal was sent to their control system for indication and to maintain the proper “weight” for the transported cargo.



API 4058 G



Benefits of API's solution:


Lower cost standard unit
Change range in a minute or less
Easy to calibrate

API Unique Feature



Functional Test Pushbutton

The Functional Test Pushbutton will, when pressed, output a test signal independent of the input signal. This signal is adjustable from 0-100% of span by holding the Test button down and adjusting the Test potentiometer on the unit. On some models the test signal is fixed at 50% of output span. This feature allows the technician to temporarily inject a test or preset calibration signal into the output loop without manipulating the input signal. This signal can be used to check loop status, downstream display operation, downstream alarm operation, etc.

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