

Unique Dual Bridge Load Cell

For Oil Rig Application

Product Highlights



A multiple bridge load cell is not unique; having a second identical bridge as a backup in a critical application is prudent to prevent output loss in the event that the primary bridge is damaged. Dual bridge load cells are common in applications such as rocket engine testing where the test alone can cost hundreds of thousands of dollars.

Loss of data due to a failure would compromise the test and require an expensive repeat. A redundant bridge is also valued in many industrial and manufacturing applications where it can simultaneously provide separate outputs for both data collection and for process control.

But this one is different. Originally designed for use on an oil rig, this single load cell actually has two separate outputs for two different ranges: a 50,000lb and a 25,000lb. A permanent installation was not necessary because the monitoring did not have to be continuous. Instead, the load cell itself could be moved to where the measurement needed to be made. This saved the cost of having two load cells dedicated to measurements which did not require full time monitoring.

STI engineers created this particular load cell - a modified Model PNC700 - to address this unique application. The low profile PNC700 is a rugged, all welded stainless steel load cell which is shock and vibration resistant. The robust 'pancake' design is resistant to off-axis loading and operates in both tension and compression. High-level analog output and digital output versions are also available as well as an intrinsically safe 4-20 mA (2-wire) output configuration. The PNC700 is available in ranges up to 100,000 lbs. and full scale accuracy is 0.05% (BFSL).

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