

Spring Compression Testing Multi-Axis

Industry: Test and Measurement

Summary

Customer Challenge

A customer wants to test the performance of their springs, but also the functionality of their spring test stand with a wireless solution.

Interface Solution

Interface suggests using one of their 5200XYZ 3-Axis Force Moment Load Cell, and installing it into the customer's spring compression frame. The 5200XYZ 3-Axis Force Moment Load Cell will measure the force compression of the spring, connect to multiple WTS-AM-1E Wireless Strain Bridge Transmitter Modules, which will display the information wirelessly to the 9812-WTS-AL4-3, and also triggers an alarm if needed.

Results

The customer was able to wirelessly get compression results on the spring being tested. They were also able to verify their spring compression test stand was working effectively.

Materials

- 5200XYZ 3-Axis Force Moment Load Cell
- WTS-AM-1E Wireless Strain Bridge Transmitter Module
- 9812-WTS-AL4-3
- Customer Spring Test Stand
- Customer PC or Laptop

How It Works

1. The 5200XYZ 3-Axis Force Moment Load cell is installed into the customer's spring compression frame, under the spring itself, containing 3 total outputs.
2. The spring was compressed, and force measurements read by the 5200XYZ 3-Axis Force Moment Load Cell is connected to the multiple WTS-AM-1E Wireless Strain Bridge Transmitter Modules, which then transmits output information wirelessly to the 9812-WTS-AL4-3. If needed, the 9812-WTS-AL4-3 can be programmed to trigger an alarm.
3. The customer was able to log data onto their PC computer.

