Aircraft Yoke Torque Measurement

Multi-Axis

Industry: Aerospace

Summary

Customer Challenge

An aircraft manufacturer wants to measure the torque of their aircrafts yoke or control wheel. They want to monitor the torque and forces applied to ensure that the aircrafts controls are operating properly.

Interface Solution

Interface suggests using the AT103 2-Axis Axial Torsion Load Cell to measure both torque and force within this single sensor. It can be installed inside of the yoke, and can measure the rotation of the yoke, and the forward and backwards movements. Data can be measured and paired with the SI-USB4 4-Channel Interface Module, and displayed with the customer's laptop.

Results

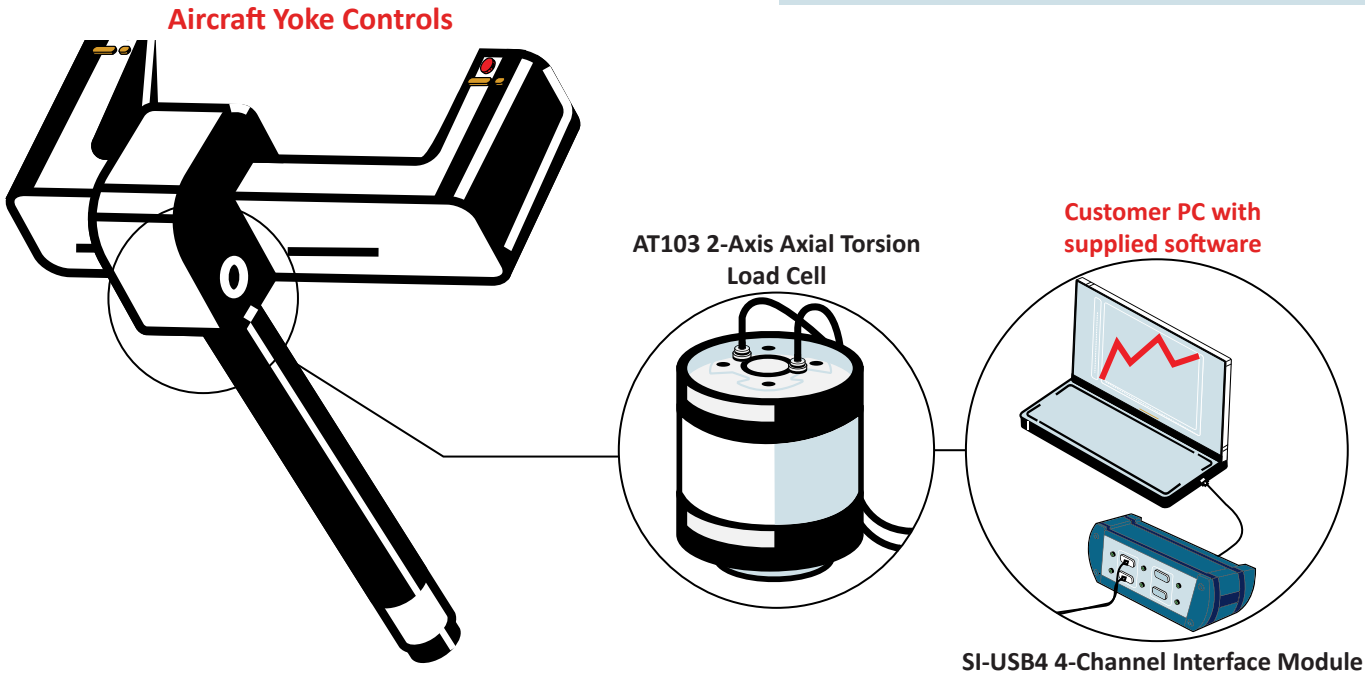
Interface's AT103 2-Axis Axial Torsion Load Cell was able to measure and monitor the torque and force of the yoke control.

Materials

- AT103 2-Axis Axial Torsion Load Cell
- SI-USB4 4-Channel Interface Module with supplied software
- Customer PC or Laptop

How It Works

1. The AT103 2-Axis Axial Torsion Load Cell is installed inside of the yoke or control wheel of the aircraft.
2. Torque and force measurements are monitored and recorded through the SI-USB4 4-Channel Interface Module when connected to the customer's PC or laptop.



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