

Vacuum Testing for Aviation Performance

Torque Transducer

Industry: Aerospace

Summary

Customer Challenge

The vacuum pump in a plane plays an important part in a number of systems, such as gyroscopic instruments, suction gauges and pneumatic systems. These instruments rely on the vacuum pump to function in a low pressure air environment. A torque test is needed for regular maintenance and inspection.

Interface Solution

Interface's T2 Ultra Precision Shaft Style Rotary Torque Transducer with torque couplings can be attached to the vacuum pump during performance testing. It will measure the amount of torque that is being used on the pump's motor or drive system. Results can be displayed, recorded, and logged using the SI-USB4 4 Channel USB Interface Module when connected to the customer's computer.

Results

Interface's T2 Ultra Precision Shaft Style Rotary Torque Transducer successfully measured and monitored the torsion results during the vacuum performance test.

Materials

- T2 Ultra Precision Shaft Style Rotary Torque Transducer
- Interface Torque Couplings
- SI-USB4 4 Channel USB Interface Module with supplied software (2 channels required)
- Customer PC

How It Works

1. The T2 Ultra Precision Shaft Style Rotary Torque Transducer with torque couplings is attached to the vacuum pump during the performance test.
2. Torsion measurements are sent to the SI-USB4 4 Channel USB Interface Module.
3. Results can be recorded, graphed, and logged with supplied software when connected to the customer's computer.

