

Vacuum Testing for Automotive Performance

Torque Transducer

Industry: Automotive and Vehicle

Summary

Customer Challenge

The vacuum pump in a car plays an important part in a number of systems, such as power brakes, HVAC, and sometimes even in the turbocharger or emissions control systems. Its primary function is to create a vacuum or negative pressure within a specific system. A torque test needs to be performed in order to ensure it is performing properly.

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
- Torque Couplings
- SI-USB4 4 Channel USB Interface Module with supplied software
- 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.

