

Torque measurements on an industrial fan



Contact

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Sector

- Drive equipment

Product name

- Torque sensor

Features

- Rugged design
- Torque/speed/power calculation
- High measurement accuracy
- High speed
- Instantaneous measurement of starting torque

Task

The task is to test the motor performance of an industrial fan used for air purification and ventilation. Similar to testing an engine, this test setup is designed to measure the torque, speed and power.

Specific Requirement

- Stable performance in exposed mounting position
- High measurement accuracy
- Real-time acquisition of torque and speed
- PC-based analysis
- Zero-maintenance operation, ideal for inaccessible installation locations

Solution

The 8661 torque sensor is permanently mounted between two couplings: between drive and rotor. These couplings are designed to correct vertical and angular misalignments and differences in length. The torque and speed measurement signals are available to the user for further processing. The optional USB interface can be used with the application-oriented DigiVision software for analysing the measurements. In addition to capturing, visualizing and archiving the measurement data, this software can also be used to calculate the mechanical power.

