DL-DAQ-702 Technical Specification

Wireless Torque Testing System

Wireless torque testing system for rotating-shaft torque and shaft-power measurement, supporting one analog measurement channel and one speed channel per module, Wi-Fi data transmission, up to 16 single-channel modules per computer, full-bridge and half-bridge connection, 4 kHz maximum sampling, 16-bit A/D conversion, and realtime torque and power display.

System Category	DL-DAQ
Signal Type	Wireless torque
Measurement Range	Full-bridge or half-bridge torque input
Sampling / Response	Up to 4 kHz
Communication	Wi-Fi data transmission
Protection / Enclosure	Rotating-shaft test installation
Power Supply	Battery-powered wireless module
Installation	Rotating shaft module installation

Key Features

- Wireless measurement supports rotating shaft torque and shaft-power tests.
- One torque channel plus one speed channel per module support torque-power calculation.
- Wi-Fi communication supports up to 16 single-channel modules per computer.
- Technical basis may reference GB/T 6587 III environmental requirements.

Typical Use Cases

- Rotating shaft torque and power testing in mechanical and industrial equipment.
- Wireless torque tests where slip rings or long cables are impractical.

Deployment Notes

- Confirm bridge type, speed input, module count, battery duration, wireless distance, and sampling rate.
- Balance and secure the rotating module according to shaft speed and safety requirements.
- Keep original supplier model names out of public documentation.

Technical Highlights and Standards

- 1 torque channel plus 1 speed channel
- Wi-Fi transmission
- Up to 16 modules
- 4 kHz sampling

- 16-bit A/D conversion
- GB/T 6587 III reference