

# DL-DAQ-802 Technical Specification

## Wireless Dynamic Strain Acquisition System

Wireless dynamic strain acquisition system for large mechanical and civil structure testing, supporting full-bridge, half-bridge, and three-wire quarter-bridge strain measurement, bridge-type acceleration, pressure, force, load, displacement, thermocouple, and voltage inputs, Wi-Fi or wired Ethernet communication, up to 16 four-channel modules per computer, optional GPS or BeiDou synchronization, bridge self-check, and long battery operation.

System Category	DL-DAQ
Signal Type	Wireless dynamic strain
Measurement Range	Full-bridge, half-bridge, and three-wire quarter-bridge strain inputs
Sampling / Response	Dynamic synchronized strain acquisition
Communication	Wi-Fi or wired Ethernet
Protection / Enclosure	Field enclosure required by project
Power Supply	Battery operation longer than 7 hours
Installation	Wireless distributed strain module installation

### Key Features

- Wireless and wired operation support flexible dynamic strain testing.
- Up to 16 four-channel modules per computer support distributed measurement layouts.
- Supports strain, bridge-type sensors, thermocouple, and voltage inputs.
- Technical basis may reference GB/T 6587 environmental requirements.

### Typical Use Cases

- Large mechanical and civil structure dynamic strain tests.
- Bridge and structural tests where Wi-Fi or hybrid wired communication reduces cabling.

### Deployment Notes

- Confirm module count, bridge mode, wireless range, synchronization, battery duration, and sampling targets.
- Use GPS or BeiDou synchronization when distributed timing accuracy is required.
- Avoid importing original model names or promotional examples.

### Technical Highlights and Standards

- Wi-Fi or Ethernet
- Up to 16 four-channel modules
- 200 m visible Wi-Fi range
- 16 GB storage

- GPS / BeiDou synchronization
- GB/T 6587 reference

Branding, supplier names, phone numbers, email addresses, physical addresses, logos, customer lists, prices, and original supplier model identifiers have been intentionally excluded from this public specification.