

DL-DAQ-401 Technical Specification

Centralized Structural Signal Testing and Analysis System

Centralized signal testing and analysis system for large-structure strength and fatigue assessment, supporting quasi-dynamic and dynamic strain acquisition, bridge sensor inputs, thermocouple and voltage measurement, Ethernet expansion, synchronized multi-channel recording, and long-duration data storage.

System Category	DL-DAQ
Signal Type	Centralized DAQ
Measurement Range	Strain, bridge sensor, thermocouple, and voltage inputs
Sampling / Response	Up to 1 kHz or 5 kHz per channel depending on module
Communication	Ethernet expansion with NTP or sync-line timing
Protection / Enclosure	Laboratory or cabinet enclosure
Power Supply	AC or project cabinet power
Installation	19-inch or half-19-inch centralized chassis

Key Features

- Centralized chassis supports quasi-dynamic and dynamic structural testing.
- Supports strain, bridge-type sensors, thermocouple, and voltage measurement modules.
- Network expansion and timing options support large channel-count test systems.
- Technical basis may reference GB/T 6587 electronic measuring instrument environmental requirements.

Typical Use Cases

- Large structure strength, fatigue, and service-life evaluation tests.
- Laboratory and field inspection systems requiring centralized multi-channel acquisition.

Deployment Notes

- Confirm module type, bridge configuration, channel count, sampling rate, timing method, and storage duration.
- Match chassis, power, and network expansion to the test channel plan.
- Keep original supplier model names and version references out of public pages.

Technical Highlights and Standards

- Centralized 19-inch chassis
- Quasi-dynamic and dynamic strain
- Thermocouple and voltage options
- Ethernet expansion

- NTP or sync-line timing
- 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.