

DL-DAQ-901 Technical Specification

Dynamic Signal Testing and Analysis System

Dynamic signal testing and analysis system for large-structure strength and service-life evaluation, supporting strain, bridge-type sensors, IEPE acceleration and acoustic sensors, charge sensors, RTD, thermocouple, current-loop sensors, eddy-current, velocity, acceleration, displacement, and voltage inputs, Ethernet or USB 3.0 communication, multi-channel synchronized recording, 256 kHz per-channel sampling, bridge self-check, TEDS support, and long-duration data storage.

System Category	DL-DAQ
Signal Type	Dynamic testing platform
Measurement Range	Strain, bridge sensors, IEPE, charge, RTD, thermocouple, current-loop, eddy-current, velocity, acceleration, displacement, and voltage
Sampling / Response	Up to 256 kHz per channel
Communication	Ethernet or USB 3.0
Protection / Enclosure	Laboratory or system cabinet
Power Supply	System cabinet power
Installation	Centralized dynamic DAQ chassis

Key Features

- Supports broad dynamic measurement inputs for strength, vibration, and service-life evaluation.
- Ethernet and USB 3.0 communication options support lab and field test setups.
- Bridge self-check, TEDS, and long-duration recording support repeatable testing workflows.
- Technical basis may reference GB/T 6587 environmental requirements.

Typical Use Cases

- Large structure strength, vibration, and service-life evaluation.
- Mechanical, rail, aerospace, automotive, and civil testing with mixed dynamic inputs.

Deployment Notes

- Confirm signal module mix, channel count, sampling rate, storage duration, and communication mode.
- Plan anti-aliasing, sensor power, bridge excitation, TEDS, and timing requirements.
- Exclude original customer cases and purchase lists from public site content.

Technical Highlights and Standards

- Up to 256 kHz per channel
- Ethernet or USB 3.0

- Mixed dynamic input modules
- Bridge self-check
- TEDS support
- 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.