DL-DAQ-402 Technical Specification

Static Strain Testing and Analysis System

Static strain testing and analysis system with 8, 16, or 24 measurement channels, supporting full-bridge, half-bridge, three-wire quarter-bridge, common-compensation quarter-bridge, bridge-type force and displacement sensors, voltage measurement, computer control, local operation, storage, and optional battery power.

System Category	DL-DAQ
Signal Type	Static strain
Measurement Range	8, 16, or 24 measurement channels
Sampling / Response	Static strain acquisition
Communication	Ethernet computer control and local LCD operation
Protection / Enclosure	Laboratory or field enclosure
Power Supply	External power with optional battery
Installation	Portable static strain instrument

Key Features

- Multiple channel configurations support education, research, field inspection, and product development testing.
- Supports common strain bridge modes and bridge-type force or displacement sensors.
- LCD and computer control support local and connected operation.
- Technical basis may reference GB/T 6587 environmental requirements.

Typical Use Cases

- Static structural performance testing in labs, schools, and engineering inspection projects.
- Field tests requiring strain, force, displacement, or voltage measurement.

Deployment Notes

- Confirm bridge mode, channel count, gauge resistance, lead compensation, and battery requirements.
- Use lead-resistance correction and bridge self-check where long cables are used.
- Do not import supplier model names, certification images, or customer lists into the public site.

Technical Highlights and Standards

- 8 / 16 / 24 channels
- Full / half / quarter bridge
- Bridge-type force and displacement sensors
- Voltage measurement

- LCD and PC operation
- GB/T 6587 reference