

DL-DAQ-202 Technical Specification

High-Precision Dynamic Data Acquisition Unit

High-precision dynamic data acquisition unit with 8 analog input channels, 24-bit conversion, -10 to 10 V input range, 0.005 mV resolution, 1 to 10547 Hz synchronized sampling, 16 GB SD storage, UDP and TCP/IP transmission, and GPS, BeiDou, or network time synchronization.

System Category	DL-DAQ
Signal Type	Dynamic acquisition
Measurement Range	-10 to 10 V analog input
Sampling / Response	1 to 10547 Hz synchronized sampling
Communication	UDP / TCP-IP with GPS, BeiDou, or network timing
Protection / Enclosure	Field enclosure required by project
Power Supply	12 VDC
Installation	Cabinet or field instrument installation

Key Features

- Eight 24-bit analog input channels support synchronized dynamic acquisition.
- Multiple timing modes support GPS, BeiDou, and network synchronization.
- Local SD storage and remote data transmission support unattended monitoring.
- Suitable for blasting, seismic, microseismic, wind tower, and structural safety monitoring.

Typical Use Cases

- Blasting, seismic, and microseismic event recording.
- Wind tower and structural safety monitoring requiring synchronized dynamic channels.

Deployment Notes

- Confirm channel count, input range, trigger mode, storage duration, and time synchronization method.
- Coordinate sensor power, shielding, grounding, and data-transfer mode before field installation.
- Use project-level cabinet protection where outdoor exposure is expected.

Technical Highlights and Standards

- 8 analog input channels
- 24-bit A/D conversion
- -10 to 10 V input
- 0.005 mV resolution

- 1 to 10547 Hz sampling
- GPS / BeiDou / network timing

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.