

# DL-SE-304 Technical Specification

## Seismic Intensity Instrument

Seismic intensity instrument for earthquake intensity quick reporting and earthquake alarm applications, integrating three orthogonal MEMS acceleration sensors and 24-bit acquisition with EW, NS, and UD components, TCP/IP network transmission, NTP and GNSS timing, event triggering, and PGA, PGV, and PGD parameter output.

System Category	DL-SE
Signal Type	Seismic intensity
Measurement Range	Horizontal +/-19.6 m/s <sup>2</sup> ; vertical -29.4 to +9.8 m/s <sup>2</sup>
Sampling / Response	50, 100, or 200 sps
Communication	TCP/IP Ethernet, serial, NTP, and GNSS timing
Protection / Enclosure	IP67
Power Supply	9-18 VDC
Installation	Floor or wall mounted

## Key Features

- Designed for seismic intensity rapid reporting and earthquake alarm workflows.
- Three-component MEMS acceleration and 24-bit acquisition support EW, NS, and UD observation channels.
- Supports event triggering, intensity calculation, PGA, PGV, and PGD output.
- Technical basis may reference DB/T59-2015, GB/T 17626, and GB/T 6587.

## Typical Use Cases

- Building, dam, bridge, and tunnel seismic intensity monitoring.
- Earthquake alarm and rapid reporting stations requiring networked event transmission.

## Deployment Notes

- Configure orientation, installation mode, timing, network, and event-trigger parameters during commissioning.
- Use floor or wall mounting according to the station design and correct azimuth settings.
- Remove original device names, default account examples, internal IP examples, and software branding from public documentation.

## Technical Highlights and Standards

- DB/T59-2015 design reference
- 24-bit acquisition
- 50 / 100 / 200 sps
- PGA / PGV / PGD output

- NTP and GNSS timing
- IP67 enclosure

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.