DL-SE-602 Technical Specification

Force-Balance Acceleration Sensor

Force-balance acceleration sensor for seismic and structural vibration monitoring, with +/-2.0 g measurement range, 0.000002 g acceleration resolution, 2.5 V/g sensitivity, selectable 0-30 Hz, 0-100 Hz, or 0-200 Hz response, high dynamic range, online calibration, and low-power operation.

System Category	DL-SE
Signal Type	Force-balance acceleration
Measurement Range	+/-2.0 g
Sampling / Response	Selectable 0-30 Hz, 0-100 Hz, or 0-200 Hz response
Communication	Analog sensor output
Protection / Enclosure	Project-specific enclosure
Power Supply	Low-power sensor supply
Installation	Base-mounted acceleration sensor

Key Features

- Force-balance design supports seismic and low-frequency structural vibration monitoring.
- Selectable frequency response supports hydropower, bridge, wind tower, slope, tunnel, and building applications.
- Online calibration and low-noise electronics support long-term monitoring.
- Pair with compatible acquisition units according to output sensitivity and frequency response.

Typical Use Cases

- Hydropower station, bridge, wind tower, slope, tunnel, and high-rise vibration monitoring.
- Seismic and structural monitoring requiring force-balance acceleration measurement.

Deployment Notes

- Confirm range, frequency response, sensitivity, sensor power, and data acquisition compatibility.
- Install on a stable, level surface and protect cable shielding and grounding.
- Remove original supplier model names and proprietary material statements from public content.

Technical Highlights and Standards

- +/-2.0 g range
- 0.000002 g resolution
- 2.5 V/g sensitivity
- Selectable 0-30 / 0-100 / 0-200 Hz response

- Online calibration
- Low-power operation

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.