# DL-DAQ-604 Technical Specification

## Array Displacement Meter

Array displacement meter for three-dimensional deformation monitoring, measuring displacement, angle, acceleration, vibration, and temperature in tunnel convergence, settlement, dam, slope, tailings, foundation pit, hydropower, and railway monitoring applications, with integrated acquisition and calculation, RS485 or RS232 output, 5-30 VDC power, and IP68 sealing.

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|---|---|
| System Category | DL-DAQ |
| Signal Type | Array displacement |
| Measurement Range | 3D or 2D deformation coordinates |
| Sampling / Response | Realtime or threshold-triggered reporting |
| Communication | RS485 / RS232 |
| Protection / Enclosure | IP68 |
| Power Supply | 5-30 VDC |
| Installation | Borehole, tunnel, dam, slope, or embedded chain installation |

## Key Features

- Measures displacement, angle, acceleration, vibration, and temperature along an array chain.
- Supports X/Y/Z three-dimensional or X/Z two-dimensional deformation output.
- Integrated acquisition and calculation output spatial coordinates directly.
- IP68 sealing and reverse-power protection support harsh geotechnical environments.

## Typical Use Cases

- Tunnel convergence, settlement, dam, slope, tailings, foundation pit, and railway deformation monitoring.
- Long-chain borehole or embedded installations requiring direct deformation-coordinate output.

## Deployment Notes

- Confirm section length, total array length, 2D/3D output mode, water pressure, and communication interface.
- Avoid exposing original supplier model numbers, price tables, tax-included unit prices, or quotation pages.
- Use standard or high water-pressure configurations according to the installation environment.

## Technical Highlights and Standards

- 3D / 2D deformation output
- Displacement / angle / acceleration / vibration / temperature
- 50 cm or 100 cm sections
- RS485 / RS232 output

- 5-30 VDC power
- IP68 sealing