

Electrical jointmeters



Description

Model 4315 electrical jointmeter consists of an anchor kit, mounting brackets for installation. The electrical jointmeter is available uniaxial and triaxial versions.

The model 4315 electrical jointmeter measures the magnitude of and trend of displacements in dams, bridge piers and abutments.

For accurate measurement, this model uses high-accurate potentiometer and it shows voltage (mV) under every different displacement by working site.

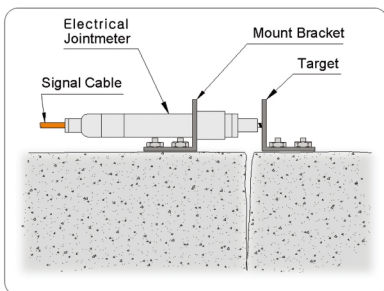
The sensor has 0~150mm range. In installation, range set for displacements that are expected. This jointmeter are designed with high quality of stainless and epoxy in order for water-proof and rustproof.

Features

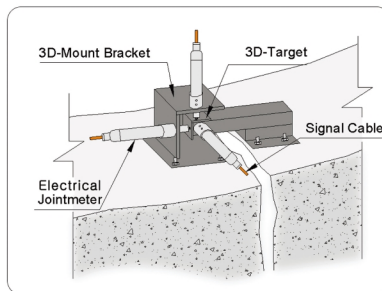
- Stability and reliability in extreme environment
- Adjustable range
- Easy to install
- Possible to automatic measurement
- Possible to dynamic measurement

Ancillary equipments

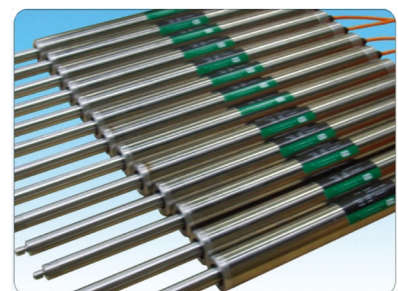
- Universal terminal box (model 7012/7024)
- Triaxial mount bracket
- Drilling template
- The length of signal cable



[Uniaxial Installation]

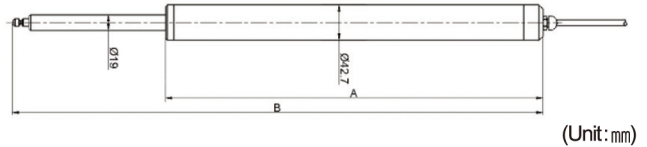


[Triaxial Installation]



[Electrical jointmeter]

Dimensions



(Unit: mm)

| Range | 25 | 50 | 100 | 150 |
|-------|-------|-------|-------|-------|
| A | 207 | 257 | 357 | 457 |
| B | 267.5 | 342.5 | 492.5 | 642.5 |

Specification

| Model | 4315 | | | |
|-----------------------|---|-------|----------|-------|
| Sensor element | Potentiometer | | | |
| Range | 25mm | 50mm | 100mm | 150mm |
| Resolution | Infinite | | | |
| Accuracy | 0.1% FSR | | 0.2% FSR | |
| Resistance | 1kΩ / 5kΩ | | | |
| Operating temperature | -30~80°C | | | |
| Materials | Stainless steel, High grade epoxy potting | | | |
| Waterproof | 50m H ₂ O | | | |
| Weight | 1.0kg | 1.3kg | 1.7kg | 2.2kg |
| Signal cable | ∅6.4mm, 0.37mm ² × 4C shielded PVC cable | | | |
| Accessories | Mounting bracket, target assembly | | | |

The readout

It is connected to the system such as the voltage readout units, or data logger as it is the electrical sensor that output mV.

- ACE-1500 (MEMS readout)
- ACE-900 series (MEMS mini logger)
- ADL-200A (Smart logger)

Ordering information

- Application field
- Cable length
- Keeping readout unit
- Range
- Uniaxial or triaxial