

VW jointmeters



Description

Model 1310 VW surface mount jointmeter consists of a VW transducer, mounting brackets for installation. The VW transducer is available uniaxial and triaxial versions. The installation procedure is similar for both jointmeters.

The model 1310 VW surface mount jointmeter measures the magnitude of and trend of displacements in dams, bridge piers and abutments.

The model **1320 VW embedment jointmeter** is used to measure orient, magnitude of and rate of the movement in concrete structures such as dams, foundations and abutments using with installation kits.

The sensor has 50~200mm range. In installation, range set for displacements that are expected.

Features

- High precision and reliability
- Stability and reliability in extreme environment
- Not affected by cable length and resistance change, reproducibility are very excellence
- Adjustable range
- Easy to use and installation
- Possible to automatic measurement

Applications

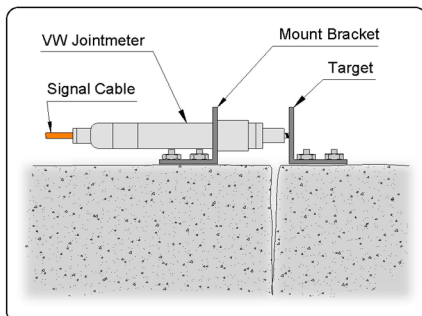
[Model 1310 surface mount]

This model is useful to measure the crack size or direction of dam joint, tunnel, tank, bridge, building etc. It has 2 types as uniaxial and triaxial models.

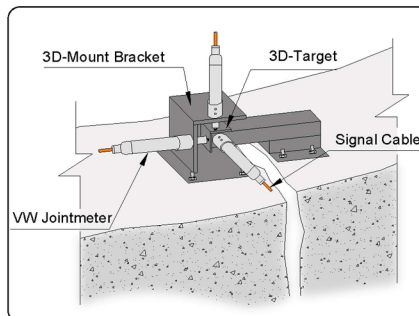


[Model 1320 embedment]

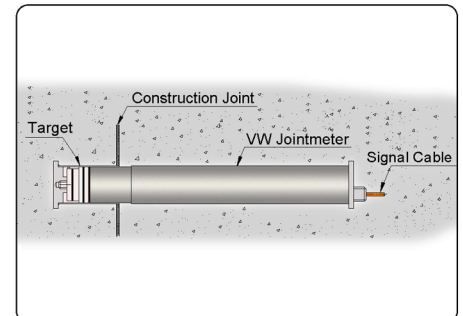
This model is used to measure orient, magnitude of and rate of the movement in concrete structures such as dams, foundations and abutments using with installation kits.



[Uniaxial installation of surface mount jointmeter]



[Triaxial installation of surface mount jointmeter]



[Installation of embed type]

VW jointmeters

Specification

Model	1310 (Surface mount)	1320 (Embedment)
Sensor element	Vibrating wire sensor	
Range	50~200mm	
Resolution	0.025% FSR (0.01~0.04mm)	
Accuracy	±0.1% FSR	
Nonlinearity	±0.5% FSR	
Operating temperature	-40~80°C	
Built-in temperature device	Thermistor (3k Ω)	
Temperature device range	-40~105°C	
Temperature device accuracy	±0.5°C	
Materials	Stainless steel / high grade epoxy potting	
Waterproof	70m H ₂ O	
Weight	① Sensor 1.4kg ② Accessory 0.6kg / 1 set (uniaxial)	
Signal cable	∅6.4mm, 0.37mm ² × 4C shielded PVC sheath cable	
Accessories	Mounting bracket	

The readout

It is connected to the system such as the VW readout units, data loggers to be data logging and data acquisition system to monitor readings. It is compatible with other company's readout unit.

- ACE-800 (VW readout)
- ACE-1000 (VW data recorder)
- ACE-1100 series (VW mini logger)
- ADL-16V (VW data logger)
- ADL-200A (Smart logger)
- VL Module (Smart LoRa system)

Ordering information

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

Ancillary equipments

- Universal terminal box (model 7012/7024)
- Polyethylene sheath cable for heavy duty
- Triaxial mount bracket
- Drilling template