

VW strand strainmeter



Description

Model 1315 **VW strand strainmeter** consists of VW displacement sensor and two mounting brackets.

The displacement in strand cables is transmitted to the VW displacement sensor through mounting brackets. When the vibrating wire is excited by a plucking coil, the VW sensor outputs the natural resonant frequency.

The VW readout unit processes this signal and display. Later, a reading from the VW sensor converts into displacement in strand cables.

The VW strand strainmeter is calibrated for displacement versus frequency by the exclusive device.

The calibration sheet is supplied with each sensor.

The VW strand strainmeter is equipped a temperature device for compensating for temperature variations.

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)

Applications

The VW strand strainmeter is designed to measure the magnitude of loads, displacements and strain on strands. And also it is useful for measuring the magnitude of loads and displacement in cable strands.

Features

- Stability and reliability in inferior environment
- Not affected by cable length and resistance
- Easy to install
- Possible to automatic measurement

Specification

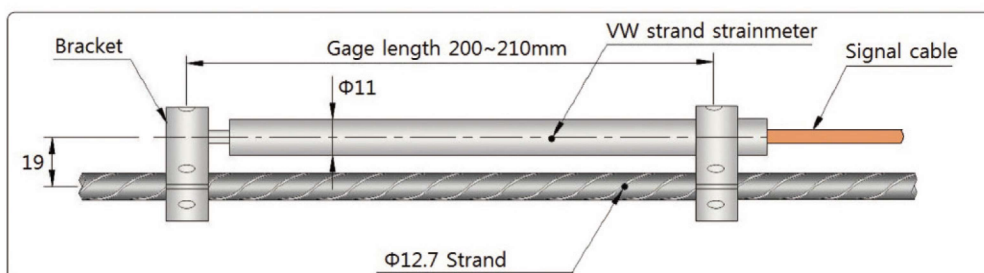
Model	1315
Sensor element	Vibrating wire sensor
Range	30,000 microstrain
Resolution	0.025% FSR
Accuracy	±0.1% FSR
Nonlinearity	±0.5% FSR
Operating temperature	-40~80°C
Built-in temperature device	Thermistor (3k Ω)
Temperature device range	-40~105°C
Temperature device accuracy	±0.5°C
Mounting bracket	Standard : \varnothing 12.7 / For 7 twist steel strands
Gage length	200~210mm (Operator adjustment)
Waterproof	50m H ₂ O
Material	Stainless steel, high grade epoxy potting
Weight	0.15kg
Signal cable	\varnothing 4.5mm, 0.24mm ² × shielded PVC sheath cable

Ordering information

- Application field
- Rated diameter of strands
- Keeping VW readout unit
- Cable length

Ancillary equipments

- Universal terminal box (model 7012/7024)
- Protection cover
- Gage setting bar



[Installation of VW strand strainmeter]