VW rebar stressmeters



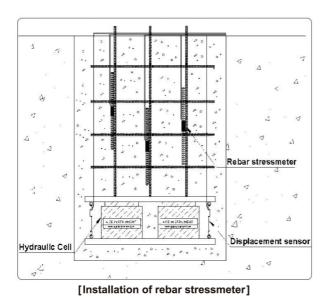
Description

VW rebar stressmeters has got the structure that reinforcing bars are attached and fixed at the both side of VW sensor. And the cross section areas of VW sensor housing and the reinforcing bar are same. Therefore it helps us to measure the exact stress being applied to the reinforcing bar.

VW rebar stressmeter outputs the force strength and the change of the stress in frequency signal. This frequency signal is transferred to VW readout unit and it is displayed in the nominated engineering unit on VW readout units. And it makes us to exactly and easily measure the data as applying the elasticity coefficient and conversion coefficient of the reinforcing bar.

And the VW rebar stressmeter will be manufactured by sister bar of the various release that according to the size of reinforcing bar.

VW rebar stressmeters are designed for waterproof. Also a temperature device for compensating for temperature variations in the transducers is equipped.



Dimensions (Unit: mm) Model 1260 1290 1265 OD of sensor Ø26 Ø34 Ø12.7 Overall length 1000 1000 1000 D25 D32 D13 Rebar spec.

Applications

The VW rebar stressmeters are designed and used in monitoring a stress of the reinforcing bars on a diaphragm wall or reinforced concrete structures.

Features

- Possible to measure more than the yield point of rebar
- Stability and reliability in extreme environment
- Not affected by cable length and resistance change, reproducibility and repeatability are very excellence
- Easy to use and installation
- Built-in temperature device
- Possible to automatic measurement

Produce ableness

No.	Diameter (mm)	Length of sensor
D10	Ø 9.53	
D13	Ø 12.7	
D16	Ø 15.9	
D19	Ø 19.1	
D22	Ø 22.2	
D25	Ø 25.4	1000mm
D29	Ø 28.6	
D32	Ø 31.8	
D35	Ø 34.9	
D38	Ø 38.1	
D41	Ø 41.3	
D51	Ø 50.8	

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VW rebar stressmeters

Specification

Model	1260	1290	1265	
Nominal diameter of the rebar	Ø25.4mm	Ø31.8mm	Ø12.7mm	
Sensor element	Vibrating wire sensor			
Range	3,300 microstrain		3,000 microstrain	
Resolution	0.5 microstrain			
Accuracy	±0.1% FSR			
Nonlinearity	±0.5% FSR			
Thermal zero shift	Less than 10.8×10 ⁻⁶ /°C			
Operating temperature	-40~80℃			
Built-in temperature device	Thermistor ($3kQ$)			
Temperature device range	-40~105℃			
Temperature device accuracy	±0.5℃			
Yield point of the rebar / elastic coefficient	$4,000 \text{kg/cm}^2 / 2.04 \times 10^6 \text{kg/cm}^2$			
Waterproof	105m H₂O			
Materials	Stainless steel, high grade epoxy potting, reinforcing bar			
Weight (including rebar)	3.8kg	5.5kg	1.1kg	
Signal cable	Ø4.5mm, 0.24mm²×4C shielded PVC sheath cable			

Rebar = Reinforcing bar

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)

Ordering information

- Installation area(field) and application
- o Dimension of the reinforcing bar
- Keeping VW readout unit
- Cable length

Ancillary equipments

- Universal terminal box (model 7012/7024)
- Extension kit for rebar (reinforcing bar)

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