

VW Type Rock Bolt Stress Meter

Description

VW Rock Bolt Stressmeter is to measure the stress that is transmitted to the rock bolt and verify propriety of the rock bolt (effective length, quantity and stress of rock bolt). It is designed to measure accurate stress of rock bolt that is reinforced and installed for strengthening the rock at the construction field such as tunnel, mining, hanger, cable tunnel, etc.

Feature

The adjusted to about 1,800Hz VW sensor is bulit in main body and rock bolt anchor can be installed easily by internal diameter Ø16.2 and external diameter Ø27.2mm high catborn pipe steel in Ø38mm internal diameter bore hole.

Component

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- * Rock bolt stress meter main body
- * Cable

Specification

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Model	SJ-5600				
Sensor type	VW Type Sensor				
Measurement range	1,400 ~ 3,500Hz				
Measurement frequency	Min 1,000 ~ Max 4,000με				
Accuracy	0.385kN				
Resolution	0.1με				
Non-linearity	±0.5% FSR				
Thermal expansion coefficient	11X10 ⁻⁶ / °C				
Operation Temp.	-20°C ~ 50°C				
Temp sensor working range	RTD : -45 ~ 100°C/ Thermistor : -30 ~ 80°C				
Temp sensor accuracy	RTD : $\pm 0.7^{\circ}$ C/ Thermistor : $\pm 1^{\circ}$ C				
Measurement point number	4 Points				
Minimum hole diameter	over Ø38mm				
Anchor nominal size	Internal diameter. Ø16.2 / External dia. Ø27.2mm				
Anchor cross section area	374.95 mm2				
VW gauge effective load	Approx. 15 ton.f				
Anchor elastic coefficient/Yield point	2.1 x 104 / dir 17 ton.f (Assume Max. elastic strain is 4,500 kg/cm ²)				
Anchor material	High carbon piping steel (film coated)				
Signal cable	Ø10mm, 0.235mm2 x 8C Shield PVC SYS cable 3m				
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* The product spec is subject to change without prior notice in order to enhance the product's quality.



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JooShin Corporation

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A	Cable		Le	ngth	4meter
B	Connecto	or	Guage Length		1,000mm
С	Head	1		Housing Dia.	33mm
D	Housing		Dimension	Pipe Dia.	27mm
E	Sensor End cove			Weight	9.5kg
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