

Description

VW embedment strain gauge is embedded in the concrete structure to measure the effective strain that affect the concrete inside. This product can measure stress, distribution direction and trend of strain, etc. with the strain gauge in 2-4 directions using the Rosette Block. Also, non-stress strain gauge case can be used to compare and verify the non-stress condition with load applying condition in dam, bridge, subway structure, etc. which are required for long-term measurement by non-stress case.

Feature

- * Excellent reproducibility and responsiveness which is free from cable length or resistance change
- * Perfect waterproof structure
- * High stability and high sensibility
- * High accurate NTC Thermistor mounted.

Component

- * VW strain gauge main body
- * Cable

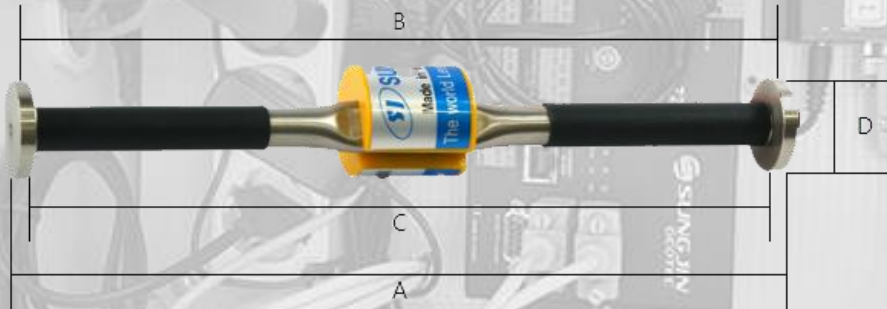
Specification

Model	SJ-2200
Type	Vibration wire type
Measurement Frequency	400 ~ 1,250Hz
Measurement strain range	Min 1,000 ~ Max 4,000 $\mu\epsilon$
Resolution	1.0 $\mu\epsilon$
Accuracy	$\pm 0.1\%$ FSR
Non-linearity	$\pm 0.5\%$ FSR
Operation Temp.	-20° C ~ 50° C
Temp sensor	NTC Thermistor (3KD-ATF)
Temp sensor operation range	Thermistor: -40° C ~ 80° C
Temp. sensor accuracy	Thermistor: $\pm 1^\circ$ C
Main material	Stainless steel 300, Fluoro O-ring, High density epoxy potting
Waterproof capacity	200m H ₂ O
cable	$\phi 6.4$ mm, 0.235mm ² x 4C Shield PVC SYS cable

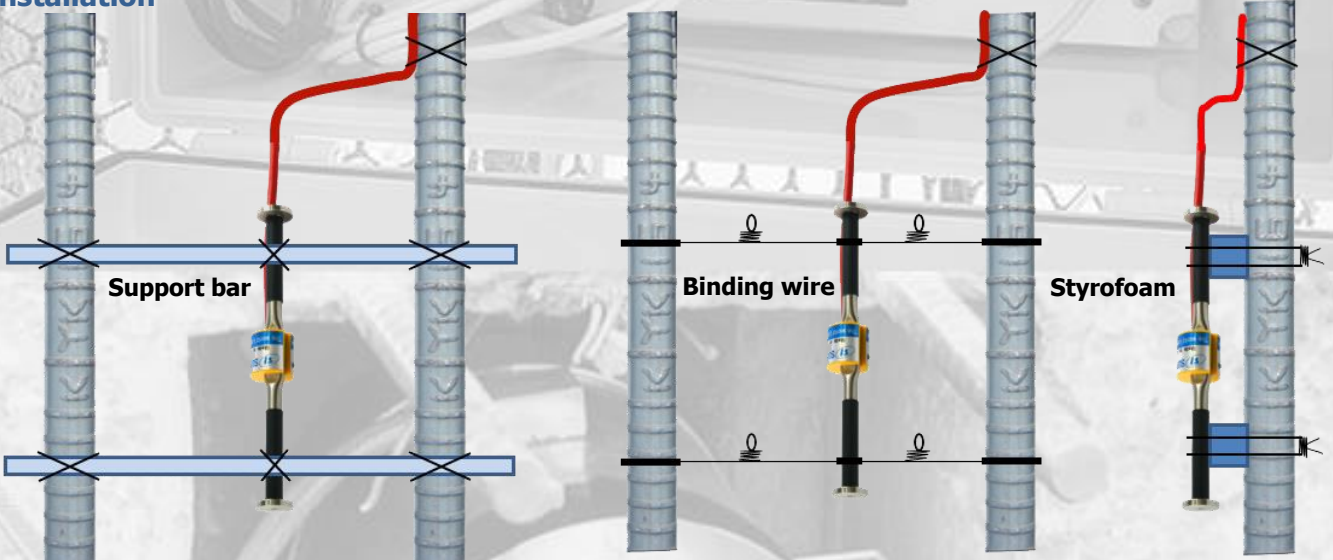
※ The product spec is subject to change without prior notice in order to enhance the product's quality.

Dimension

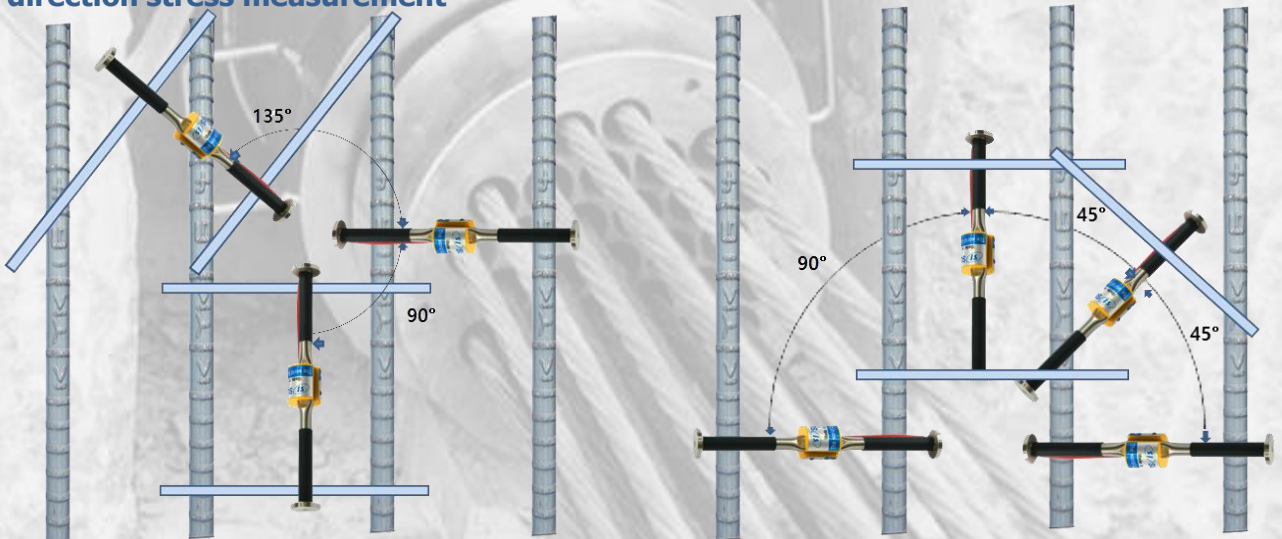
Item	SJ-2200	
Dimension	A (mm)	155
	B (mm)	153
	C (mm)	150
	D (ø) (mm)	19
	Weight	Main body : 0.06



Installation



Multi direction stress measurement



3 Direction stress measurement

4 Direction stress measurement