

VW Embedment Strain Gauge (매설형 변형률계)



Description

VW Embedment Strain Gauge is used to measure the effective stress working concrete inside by embedding a sensor in the concrete structure to determine the stability of the structure. This product can easily measure strain size, distribution direction and trend by putting strain meter in 2 ~ 4 directions using Rosette Block.

Also, it can be verified by using a case for a non-stress strain meter to compare the stress-free state with the load applied conditions in dams, bridges, and subway structures which are required for long-term measurement.

Composition & Characteristic

■ Components

- ① Strain gauge sensor
- ② Cable

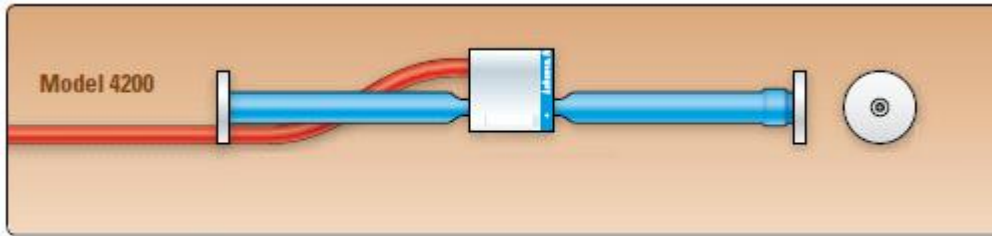
■ Features

- ① Excellent reproducibility and responsiveness because it is not affected by cable length or resistance change
- ② Perfect waterproof structure
- ③ High stability and high sensitivity design
- ④ Built-in high-accuracy temperature sensor

Specification

| | |
|----------------------------------|--|
| Model Name | SJ-4200 |
| Sensor applied | Sensor (V/W Type) |
| Measurement Range | 400 ~ 1,250Hz |
| Measurement band | Min 1,000 ~ Max 4,000 $\mu\epsilon$ |
| Resolution | 1.0 $\mu\epsilon$ |
| Accuracy | $\pm 0.1\%$ FSR |
| Linearity error tolerance | $\pm 0.5\%$ FSR |
| Working Temp. | -40°C ~ 80°C |
| Built-in temp sensor | NTC Thermistor (3KD-ATF) |
| Temp sensor working range | Thermistor : -40°C ~ 80°C |
| Temp sensor accuracy | Thermistor : $\pm 1^\circ\text{C}$ |
| Material | Stainless steel 300, Fluor O-RING & High density epoxy Potting |
| Waterproofing | 200m H ₂ O |
| Signal cable | $\varnothing 6.4\text{mm}$, 0.235mm ² X 4C Shielded PVC Sheath Cable |

※ This is subject to change without prior notice in order to improve the product's quality.



| Description | | SJ-4200 | Components |
|--------------|-----------------------|---------------|------------|
| Product size | L (mm) | 155 | |
| | L(Gage) (mm) | 150 | |
| | D(∅) (mm) | 21 | |
| | W (kg) | Sensor : 0.06 | |
| | Protection cover (mm) | 100 × 11mm | |

Reference

