

VW Arc-Weldable Strain Gauge

Introduction

Vibrating wire strain gauges are used to monitor strain in structure surface for safety and stability. VW arc-weldable strain gauges are easily fixed on steel beam or pipe surface using arc-welders and little installation space. The gauge is composed by a tense wire enclosed in a metallic cylinder. The wire is excited with electric signal via coils fixed on the gauge plastic cover. Strain on the structure surface is recorded through changes in the vibrating wire frequency.

Application

Suitable for stress and strain monitoring of:

- Load support system
- Steel structure
- Stress in concrete section

Type

Model: SG-1001



Specifications

Type	Vibrating Wire
Range	3000 micro-strain
Accuracy	0.1% F.S.
Sensitivity	1 micro-strain
Gauge Length	150 mm
Rod length	165 mm
Temperature Type	Thermistor
Temperature Range	-30 ~ +80°C

Features



High accuracy

Good steel surface fitting enhancing the accuracy of the strain gauge.



Waterproof

Humidity or distance has no effect on signal propagation, assuring accurate data at all time.



High resolution

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VW HUB

It is easy to integrate within VW hub.