

Weldable Strain Gauge – SGCJ02-150

Vibrating Wire Weldable Strain Gauge is designed to be welded to the steel structures to measure strain in an element. This can be either a rebar, structural profile, a sheet or a pipe. The main usage of this instrument is in steel structures, factory facilities and bridges etc. The instrument is usually welded to the member either with a spot weld or an arc weld. For the arc weld, two steel blocks are mounted at both ends to facilitate welding without imposing any damage to the sensor.

Application

Some of the applications of this instrument are:

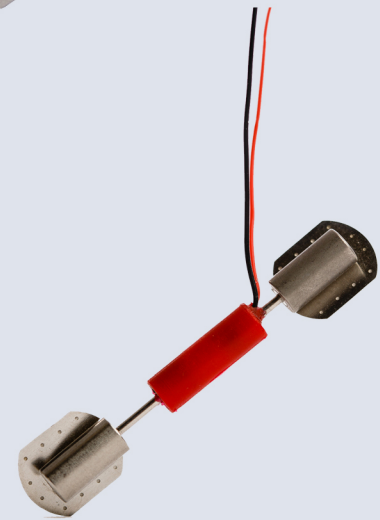
- Measuring strain in steel structures and buildings.
- Strain measurement in steel beams and slabs.
- Measurement of strain in columns and struts.
- Strain measurement in factory facilities.
- Monitoring of steel pipes.

Operation and Installation

The element on which the strain gauge is installed shall be clean. The gauge is laid on the element in the direction of strain measurement. An arc weld or a spot weld machine is used to weld the instrument to the element. Right after the weld has cooled, the measurement can commence.

If possible, the sensor shall be installed in shade to avoid direct sunshine. If not possible, it is suggested to cover the sensor with a sun shade. In all the cases, cables should be protected with suitable covers to avoid any damage.

Technical Spec	
Range	3000 microstrain
Resolution	1 microstrain
Accuracy	±0.5% full scale
Temperature range	-30 to +80°C
Active gauge length	150mm
Material	Stainless Steel 316
Weight	120 gr
Active gauge length	150 mm
Cable type	4 core, PU sheathed
Thermistor type	NTC 3kΩ
Thermistor accuracy	±0.5°C



Order information

Cable length in m