

## Strain Gauges

### Purpose

Strain gauges are used to monitor axial load in steel and concrete structures

### Type

#### I) Weldable

Arc-Weldable Vibrating Wire Strain Gauge

Spot-Weldable Vibrating Wire Strain Gauge

#### II) Embedment

Embedment Vibrating Wire Strain Gauge

### Applications

#### I) Weldable Strain Gauge

Monitor load in struts for deep excavations;  
stresses in structural members of buildings, bridges, tunnel linings and supports  
during and after construction; and  
distribution of load in pile tests.

#### II) Embedment Strain Gauge

Measure strains in reinforced concrete;  
changes in load;  
curing strains; and  
strain in tunnel linings and supports.



*Arc-weldable vibrating wire strain gauge*



*Embedment vibrating wire strain gauge*



*Spot-weldable vibrating wire strain gauge*



*Spot-weldable vibrating wire strain gauge  
installed on struts*