

Model 3900 Embedment Strain Gage



The Model 3900 Embedment Strain Gage is designed for the measurement of dynamic strains in concrete structures, earth fills and soils. Special, high-temperature versions are also available for use in asphalt roadways. It comprises a full bridge strain gaged proving ring coupled, between two flanges, with a spring and shaft. When the flanges move relative to one another, the tension in the spring changes and hence the strain in the proving ring. A PVC tube serves as a protective housing and holds the gage at the desired initial tension.

Specifications

Standard Range	5000 $\mu\epsilon$
Resolution	0.125 mV/V nominal
Accuracy	$\pm 0.25\%$ F.S.
Nonlinearity	$< 0.5\%$ F.S.
Temperature Range	-20°C to $+80^{\circ}\text{C}$
Active Gage Length ¹	203 mm

¹Other lengths available on request.