

MODEL 3900



Model 3900 Dynamic Embedment Strain Gauge.

APPLICATIONS

Embedment Strain Gauges are used for measuring dynamic strains in:

- Concrete structures
- Earth fills
- Soils

OPERATING PRINCIPLE

The Model 3900 Dynamic Embedment Strain Gauge is designed for the measurement of dynamic strains in concrete structures, earth fills and soils. It comprises a full bridge strain gauged 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 gauge at the desired initial tension.

TECHNICAL SPECIFICATIONS

Standard Range	5000 $\mu\epsilon$
Resolution	0.025% F.S.
Accuracy ¹	$\pm 0.25\%$ F.S.
Nonlinearity	<1.0% F.S.
Temperature Range ²	-20 °C to +80 °C
Active Gauge Length ³	203 mm

¹Accuracy established under laboratory conditions.

²Other ranges available on request.

³Other lengths available on request.

ORDERING INFORMATION

3900: Concrete Embedment Type Resistance Strain gauge, full bridge, 203 mm gauge length, 5000 $\mu\epsilon$ range.

04-375V9: Violet PVC Cable, 9.50 mm (± 0.38 mm) [0.375"] \varnothing , 4 twisted pairs, for the above.

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