## 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 με
Resolution	0.025% F.S.
Accuracy <sup>1</sup>	±0.25% F.S.
Nonlinearity	<1.0% F.S.
Temperature Range <sup>2</sup>	−20 °C to +80 °C
Active Gauge Length <sup>3</sup>	203 mm

<sup>&</sup>lt;sup>1</sup>Accuracy established under laboratory conditions. <sup>2</sup>Other ranges available on request.

#### ORDERING INFORMATION

**3900:** Concrete Embedment Type Resistance Strain gauge, full bridge, 203 mm gauge length, 5000 με range. **04-375V9**: Violet PVC Cable, 9.50 mm (±0.38 mm) [0.375"] Ø, 4 twisted pairs, for the above.

Other lengths available on request



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