## Fiber Optic Rebar Strainmeter

## **Applications**

The Model FP4911 Fiber Optic Rebar Strainmeter is designed to measure strain in...

- Concrete piles and caissons
- Slurry walls
- Concrete slabs and footings
- Bridge abutments
- Tunnel linings



Model FP4911 Fiber Optic Rebar Strainmeter.

## **Operating Principle**

The Model FP4911 Fiber Optic Rebar Strainmeter is designed for measuring strains in foundations, slurry walls, precast piles, caissons, bridge abutments, tunnel liners, etc. The standard Model FP4911 (#4 rebar), known as the "Sister Bar," is installed alongside structural rebar. The Fiber Optic element employed in this sensor makes it particularly suitable where dynamic measurements are to be made and/or on projects where other fiber optic sensors are deployed.

## **Technical Specifications**

Standard Range	–1000 to +1000 με
Resolution	0.15 με
Accuracy	±0.25% F.S.
Nonlinearity	<0.5% F.S.
Temperature Sensitivity	0.85 to 1.22 με/°C
Temperature Operating Range <sup>1</sup>	−40 °C to +80 °C
Rebar Size	4 (Sister Bar)
Active Gauge Length	914 mm

<sup>1</sup>Other ranges available on request.



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