Concrete Strain Gauges

CTLGroup's Concrete Strain Gauges feature a field-proven design that uses durable materials to ensure accurate long-term data collection. Its full-bridge configuration reduces costs by eliminating the need for expensive data-acquisition and signal-conditioning systems to provide bridge completion. Shielded, twisted-pair design protects the lead wire from electrical noise. This all leads to longer sensor life and long-term savings, by reducing redundancy in your instrumentation plan.

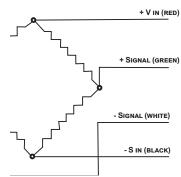
General Specifications

Bridge	Full bridge, no completion required
Completion	
Gage	350 Ohm
Resistance	
Excitation	up to 10 Volts
Output	≈ 2 mV/V @ 1500 µstrain
Calibration	Individually provide
Factor	
Grid Area	0.133cm ²
Gage Area	1.22 cm² overall
Fatigue Life	<10 ⁵ repetitions @ +/- 1500 µstrain
Cell	Steel 5/16-in. diameter with 5/16 in. x
Material	18 threaded ends
Coating	Two-part polysulfide liquid polymer,
	encapsulate in silicone with butyl

Quality Assurance

Temperature -34°C (-30°F) to 204°C (400°F)
Lead Wire 30 ft of 22 AWG braided shield,
twisted-pair four wire







rubber outer core

