Asphalt Strain Gages

CTLGroup's Asphalt Strain Gages (ASGs) are designed to General Specifications withstand the high temperatures and compaction loads associated with asphalt pavement construction. The ASG 152 (1st photo) is used for measuring the horizontal strain in asphalt layers whereas ASG-V (third photo) is used for measuring vertical strain Both types benefit from field-proven designs that use durable materials to ensure accurate long-term data collection. The fullbridge configuration used in our ASGs reduces costs by eliminating the need for expensive data acquisition hardware and signal-conditioning systems to provide bridge completion. Braided shielding protects the lead wire from electrical noise, while an Abrasion-resistant Teflon polymer coating withstands temperatures up to 205°C (400°F). This all leads to longer sensor life and long-term savings, by reducing redundancy in your instrumentation plan.

Bridge CompletionFull bridge, no completion required	
Gage Resistance	
Excitation	up to 10 Volts
Output	≈ 2 mV/V @ 1500 µstrain
Calibration Factor	Individually provided
Grid Area	0.133cm ²
Gage Area	1.22 cm² overall
Fatigue Life <	10 repetitions @ +/- 1500 µstrain
Modululs	≈ 2 340,000 psi
Cell Material	Black 6/6 nylon
Coating	Two-part polysulfide liquid
polymer, encapsulated in silicone with butyl rubber outer	
core	

Quality Assurance

Temperature...... -34°C (-30°F) to 204°C (400°F)







