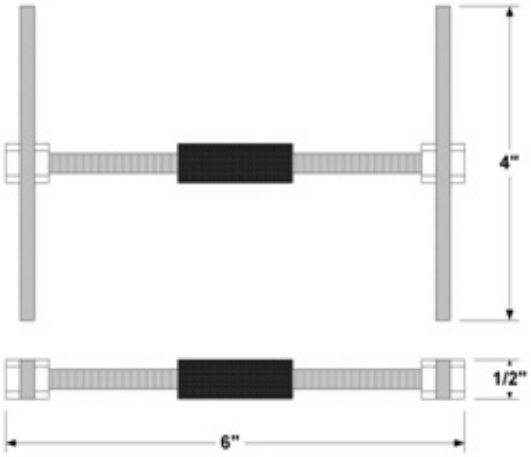
Dynamic ASG

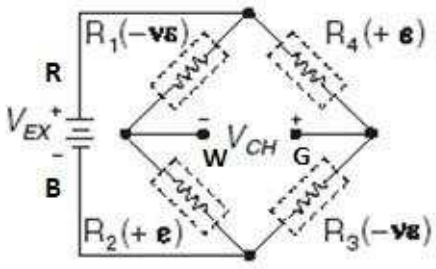
Asphalt Strain Gage

Dynamic asphalt strain gages measure axial strain in the flexible pavement under high frequency (dynamic) conditions. Utilizing four active elements of a Wheastone bridge circuit, this gage compensates for temperature, rejects bending strain (may also be configured to measure bending and reject axial strains) and compensates for lead resistance pro- viding a sensor that is easily adaptable to most data acquisition systems without requiring additional signal conditioning.



These low modulus, ruggedized sensors are built to withstand the high temperature and vibratory rolled compaction required for asphalt placement.

Each sensor is individually calibrated with standard 30-ft lead length of high temperature lead-wire attached (other lengths upon request) and supplied with fabrication Quality-Control documentation.



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SPECIFICATIONS

BRIDGE CIRCUIT	Four active 350-ohm strain gages
RANGE	±3000 microstrain
SENSITIVITY AT 1000 ME	~ 1.3 mV_{out}/V_{exc}
EXCITATION	up to 5 Volts
TEMPERATURE RANGE	-34°C to 200°C
LEAD WIRE	30 AWG, twisted four-wire with shielding