

Dynamic CSG

Concrete Strain Gage

Dynamic concrete strain gages measure axial strain in the concrete under high frequency (dynamic) conditions. Utilizing four active elements of a Wheatstone bridge circuit, this gage compensates for temperature, rejects bending strain

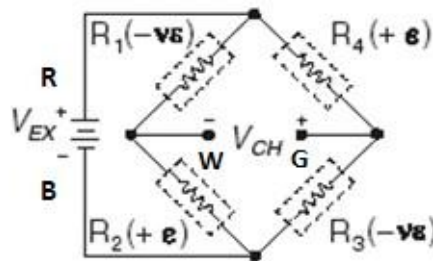
(may also be configured to measure bending and reject axial strains), compensates for lead resistance and providing a sensor that is easily adaptable to most data acquisition systems without requiring additional signal conditioning.



5/16" Diameter by 8" Long Sensor

Because of their low profile design, these sensors can be used in concrete pavements, columns, walls, bridge elements or wherever dynamic strains need to be measured.

Each sensor is provided with end washers, nuts and are individually calibrated with standard 30-ft lead length attached (other lengths upon request) and supplied with fabrication Quality-Control documentation.



SPECIFICATIONS

BRIDGE CIRCUIT Four active 350-ohm strain gages

RANGE ± 2000 microstrain

SENSITIVITY AT 1000 ME $\sim 1.3 \text{ mV}_{\text{out}} / \text{V}_{\text{exc}}$

EXCITATION up to 10 Volts

TEMPERATURE RANGE -34°C to 100°C

LEAD WIRE 24 AWG, twisted four-wire with shielding