SOIL DYNAMICS

SOIL PRESSURE CELL
TYPE 0234

The BG Series of solid state load cells is designed to meet the demands of soil stress measurement. Being fluid filled the diaphragms exhibit virtually zero deflection under load and the active/total area ratio has been designed so that the intrusion of the cell into the material under study has the minimum effect on its properties. The transducer utilizes a solid state silicon pressure transducer as the basic sensing element coupling extreme robustness with high output. The unit is available with or without an additional reinforcing plate.

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Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (D)

SOIL STRESS GAGE
LQ-080U SERIES

Designed and developed in cooperation with the U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

Range
PSI (Nom.)
Diaphragm Thickness
Overpressure With No Change in Calibration
200
0.025"
300%
3000
0.075"
200%
10000
0.150"
130%

Deflection
Natural Frequency (KHz)
Operational Mode
Pressure Media
Rated Electrical Excitation
Maximum Electrical Excitation
Input Impedance
Output Impedance
Full Scale Output
Residual Unbalance
Combined Non-Linearity, Hysteresis and Repeatability
Resolution
Operating Temperature Range
Compensated Temperature Range
Thermal Zero Shift
Thermal Sensitivity Shift
Acceleration Sensitivity
Humidity
Response Time (To Step Input)
Active/Total Area Ratio
Electrical Connection
Insulation Resistance
Case Material
Weight
Sensing Principle