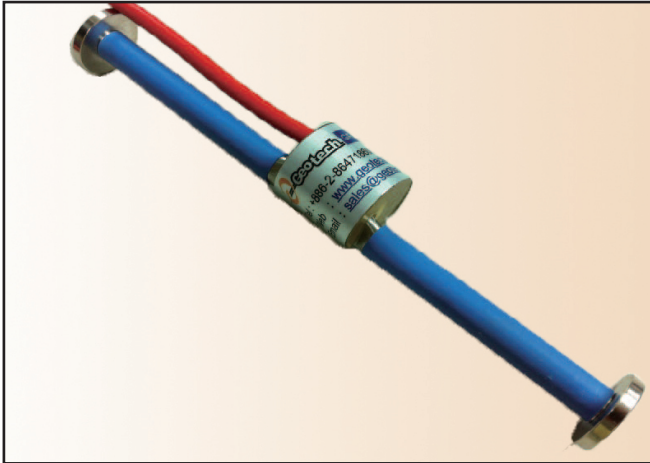


GT-VG-4200 Concrete Embedment Strain Gage



GT-VG-4200 Concrete Embedment Strain Gage is usually used for monitoring the change of strain in either reinforced concrete or mass concrete structure during the construction period. Inside the gage there is a length of string wire which is fixed and tensioned between two steel blocks. Deformation of concrete structure changes the distance between two steel blocks, thus it will alter the tension in string wire.

An electromagnetic coil is used to pluck the wire and a vibrating wire datalogger is used to measure the frequency of vibration. Finally, through calculation the actual strain can be obtained.

GT-VG-4200 Concrete Embedment Strain Gage need to be fixed and installed inside the concrete structure, before embedded inside fresh concrete. For an installation in reinforcement concrete structure, the gage could be fixed or attached to support bars which are fixed between two reinforcement bars. Typical applications such as Foundation Pile, Retaining Wall, Foundation Base, Tunnel, and Dam structure.

Features and Advantages

- High accuracy and good precision.
- Cable length and resistance do not affect the accuracy of the sensor.
- Good durability, and excellent long-term stability.
- Wide measurement range, up to $\pm 3000\mu\epsilon$.
- Come with built in temperature sensor, capable to monitor local temperature inside the structure

Specifications

Resolution:	1.0 $\mu\epsilon$
Measurement Range:	$\pm 3000\mu\epsilon$
Operating Temperature:	-20°C ~ 80°C.
Nonlinearity:	<0.5% F.S.
Active Gage Length:	155mm