

# Geo-Instruments: Crackmeter Systems

The Geo-Instruments crackmeter provides a proven long term monitoring solution for many structural applications requiring discrete relative displacement measurements in near real time. They are easily installed and provide a direct method to detect differential movement on structures,

Typical applications include:

- Effects of deep excavations and diaphragm wall construction on adjacent existing structures
- Structural Health/Long term monitoring applications
- Deformation monitoring within tunnels, including convergence applications
- Compensation grout monitoring
- Remote monitoring of distressed structures.
- Monitoring for confirmation of monolithic structural element position pre/post event
- Monitoring joints and bearing/support interaction
- Robust, accurate, simple and reliable
- Very cost effective per measurement point
- Proven technology, with good long term stability
- Versatile installation as discrete points; 3 axis (X,Y and Z) configurations.

Crackmeters may be integrated with our WiSe data logging system., or with standard CSI type loggers. Please see separate datasheets for loggers



Above: Crackmeter unit shown with standard rebar anchors. Special angle brackets may be provided to allow configuration of three crackmeters in an X Y and Z orientation.

Range	50 mm
Accuracy	±0.2% FS
Resolution	0.025% FS
Dimensions	340x 19mmØ
Excitation Voltage to AVW interface	5 volts
Current Consumption	<1µA
Excitation Method	Pluck Or Sweep
Operating Temperature	-20 to +80° C
Material	316 Grade Stainless Steel
Ingress Protection	IP68 to 1700 kPa

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*Helping you get the  
 data you need.*

