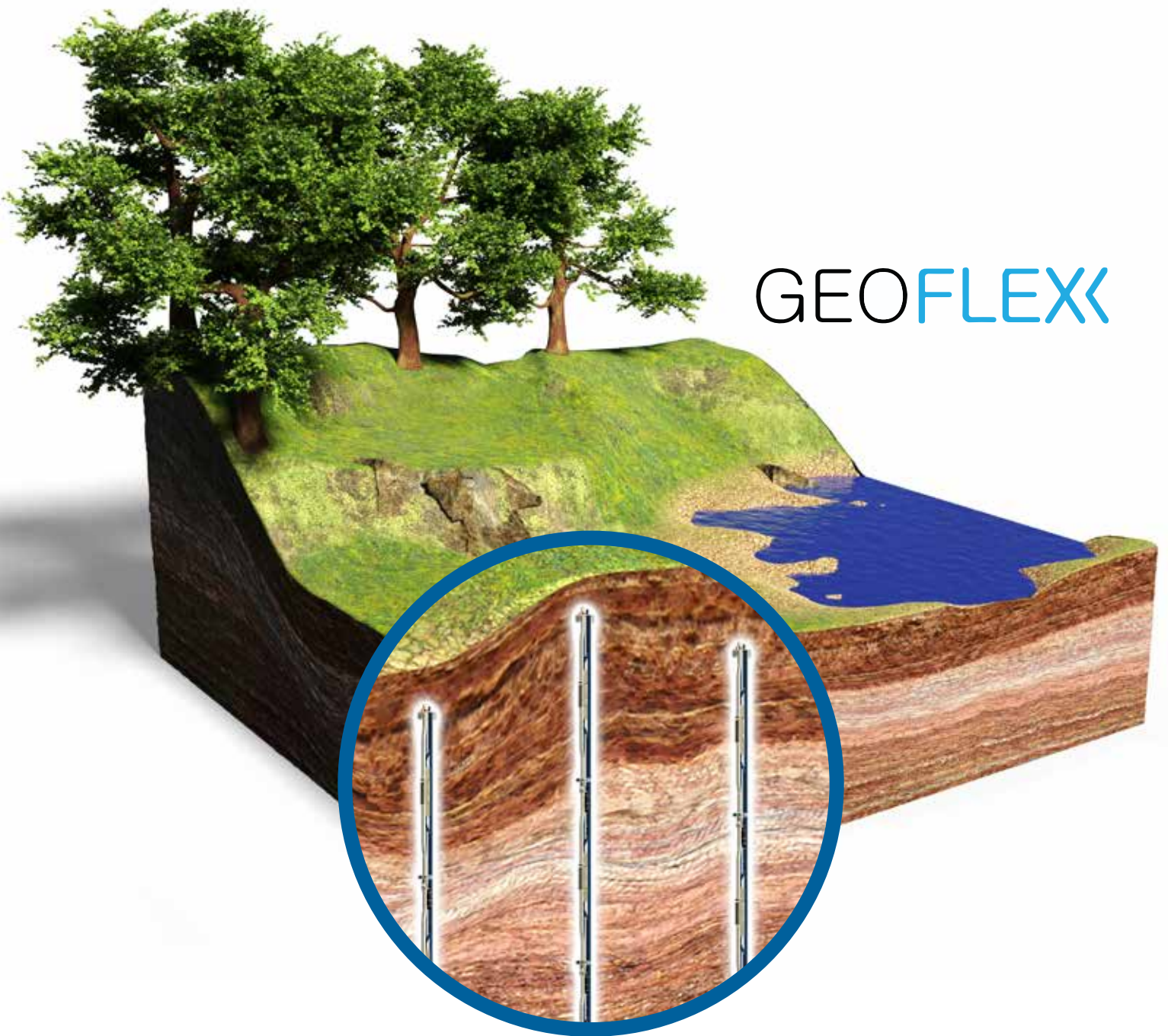


# State of the Art Inclinator System for Geotechnical Applications



GEOFLEX

# Technology backed by over 40 years of experience



**Robust and durable**



**Flexible for easy shipping**



**IP68 rating and reusable**

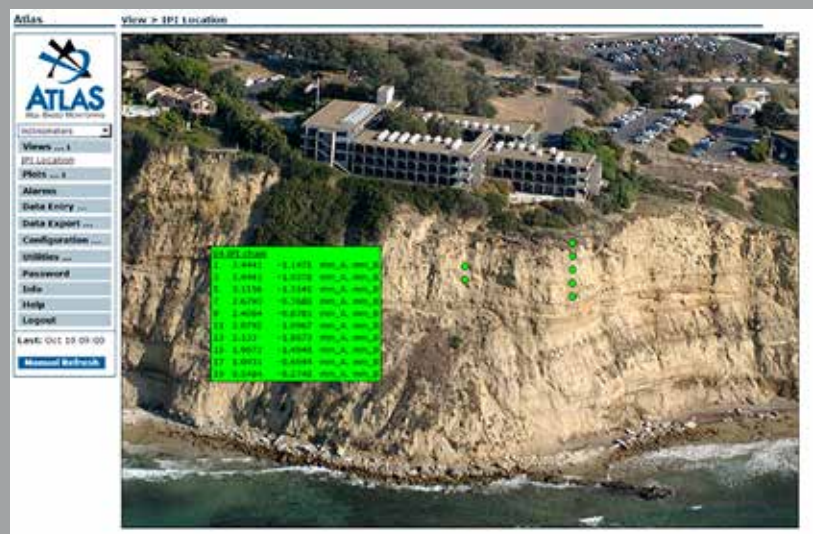
The GeoFlex inclinometer system is ideal for data logging and real-time, remote monitoring for critical geotechnical applications such as construction control. It employs a string of closely spaced MEMS sensors for subsurface measurements and does not require an on-site operator. The joints between each sensor are robust and capable of bending to 90°, allowing for a compact shipping option.

## Benefits

- Lower Cost Solution
- One-Person Installation
- Custom Configurations

## Complete Solution

Durham Geo Slope Indicator offers complete monitoring solutions that include data loggers and software such as Atlas Web-Based Monitoring, which can present profile plots and trend plots of inclinometer data just minutes after the readings are obtained.



# Applications

Provide early warning of slope failure for:

## Landslide Areas



**Dams**

## Ground Movements



**Tunnels**

## Deformations



**Embankments**



**Railroads**



**Excavation**



**Retaining Walls**



**Highways**



**Tunnel Construction**



**Deep Foundation Elements**

# GEOFLEX NODE SPECIFICATIONS

## Sensor Type

MEMS (Micro Electro-Mechanical Systems) tilt sensor for inclination readings

## Requirements

Minimum supply voltage of 10 Vdc. Maximum supply voltage of 30 Vdc. Digital RS485 signal requires Campbell Scientific data logger

## Calibrated Range

±30 degrees from vertical over a temperature range of -10°C to +40°C

## Resolution

9 arc seconds or 0.04 mm/m using the CR1000 data logger

## Repeatability

±82 arc seconds or ±0.4 mm/m

## Required Casing

Fits 70 mm (2.75") diameter inclinometer casing or 38 mm (1.5") diameter Schedule 40 PVC pipe

## Waterproof

Waterproof to 2 MPa (300 psi)

## Weight

0.54 kg per 0.6m (1.2 lb per 2 feet) gauge length

## Signal Cable

Jumper Cable for connecting the system to the datalogger. Connectors are rated to 70 MPa (10,000 psi)

[DurhamGeo.com/GeoFlex](http://DurhamGeo.com/GeoFlex)



Mukilteo, WA  
12123 Harbour Reach Drive  
Suite 106, Mukilteo, WA 98275  
Tel: 425-493-6200

Stone Mountain, GA  
2175 W Park Ct.  
Stone Mountain, GA 30087  
Tel: 770-465-7557

Durham Geo-Enterprises, Inc., a Nova Metrix company

