Probe Style In-place Digital Bus Inclinometer

Standard in-place inclinometers may not be able to track in casings deformed by active ground movement. The Probe Style In-place MEMS Digital Bus Inclinometer has tracking equal to the best standard probe inclinometers. It is designed to remotely monitor, and continuously measure, underground vertical movement as a result of construction and excavation and any settlement that may occur around tunnels, dams, embankments and landfills.

In-place inclinometers consist of one or more MEMS inclinometer sensors housed in a 25 mm (1.0 in.) diameter, water-light, stainless steel enclosure. Each sensor is separated from the next by Kevlar® cable assemblies. Cable lengths can be varied so sensors can be concentrated in areas of expected movement.

Wheel assemblies are sized to fit both 70 mm (2.75 in.) and 85 mm (3.34 in.) O.D. inclinometer casing. As movement occurs and the inclinometer casing deforms, each sensor can be automatically monitored and can be read at a remote readout location. If necessary, an alarm can be triggered when movement reaches a preset critical rate or magnitude.

> APPLICATIONS
Monitoring local tilt in active boreholes.

> FEATURES
- Tracking equal to probe inclinometer.
- 24 bit A/D in sensors.
- High resolution and stability. On board electronics.
- Optional single cable digital BUS system.
- Highly cost effective per sensor point.
- Easily adaptable to data logging.

> BENEFITS
- Increase Safety
- Increase Productivity
- High Accuracy
- High Reliability

ORDERING INFO
DIGITAL BUS CABLE SYSTEM
- Top cable: 1 connector/bare leads (specify length) IC7820
- Interprobe cable: 2 connectors (specify length from wheel center to wheel center) IC7824
- Bottom Sealing Connector IC7828

ORDERING INFO: COLLAR HANGERS
DIGITAL BUS SYSTEM
- Hanger & Wheel Kellums 70 mm casing IC7837
- Hanger & Wheel Kellums 85 mm casing IC7838

ORDERING INFO: READOUTS
READOUTS & DATA LOGGERS
- flexDAQ Dataloggers - contact RST for more info or see separate brochure.