

Applications:-

For the measurement of subsurface settlement/heave profiles beneath embankments, surcharges, fills, roadways, storage tanks, structures and landfills. It can also be used to measure differential settlements at discrete points on structures or settlement above tunnelling activity.

Working principle

A vibrating wire sensor is located within a probe that can be pulled through a buried pipe or borehole. The sensor is connected via a liquid-filled tube mounted on a reel which is mounted horizontally at the reservoir location on stable ground. The reel is free to turn as the probe is pulled through the pipe or borehole.

The sensor measures the hydraulic head of liquid between the sensor and the reservoir locations.

Features:-

- ◆ Not affected by barometric pressure
- ◆ Simple & easy to use
- ◆ Accurate settlement profile



SPECIFICATION

Range	7 metres
System accuracy	± 4mm
Resolution	± 2mm
Temperature range	-20°C to +80°C

