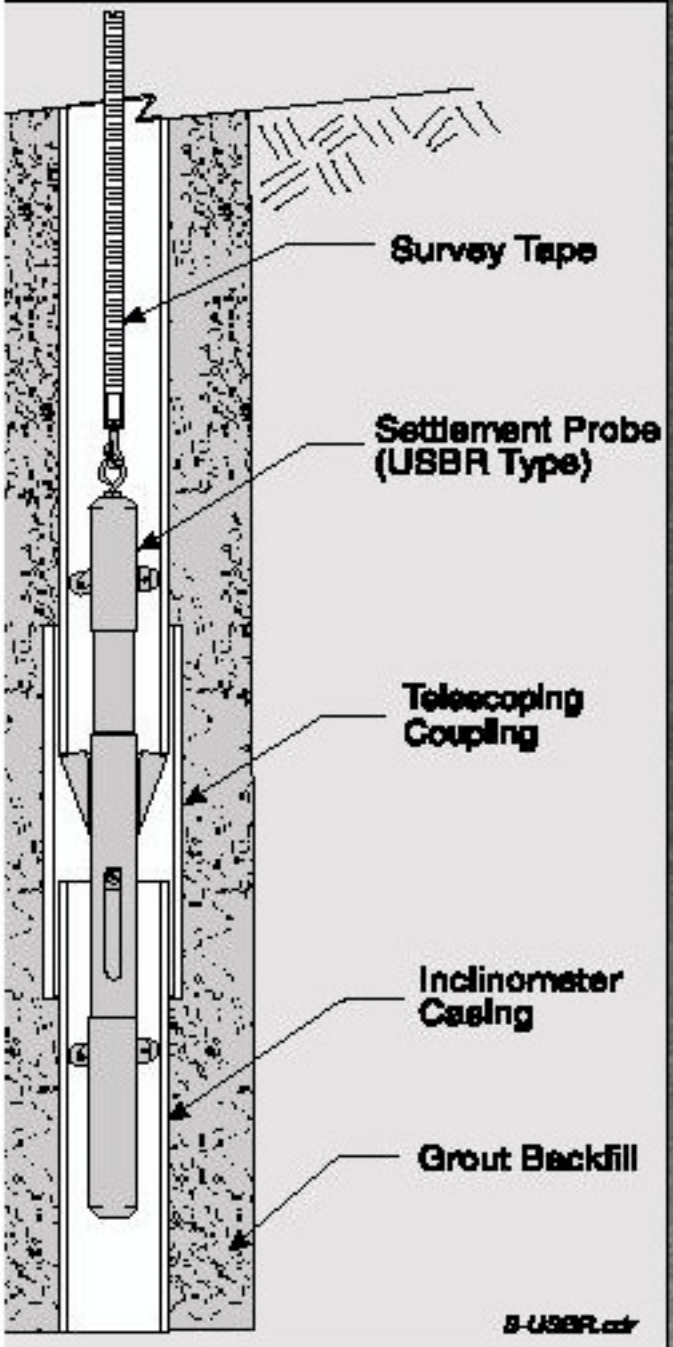
Applications

Settlement probes are used with telescoping inclinometer casing to identify the zones and magnitude of settlement in the ground surrounding the casing. Typical applications include:

- Monitoring settlement in foundations, and embankments.
- Monitoring for settlement caused by construction of tunnels and other underground openings.
- Monitoring settlement to increase the accuracy of inclinometer data.

Operation

The operator connects the probe to a survey tape and lowers the probe into the inclinometer casing. When the probe reaches the approximate depth of the first coupling, the operator pulls up, causing the arm of the probe to catch on the bottom edge of the casing section.

The operator notes the depth and then repeats the procedure for the next section of casing. When the probe contacts the bottom of the casing, a mechanical action locks the arm in the closed position so it can be withdrawn.

Settlements are calculated by comparing the current depth of each casing section with its initial depth.