

CONSOIL HYDROSTATIC PROFILER



The CONSOIL PROFILER is designed primarily for measuring vertical movements or profiling areas not normally accessible to conventional survey techniques, i.e., the settlement of buried pipes, or to measure alignment in directional drilling or jacking of pipes.

The system consists of a pressure transmitter encased in a stainless steel probe, a tube assembly consisting of a liquid-filled tube with internal signal cable. The liquid-filled tube terminates in a clear plastic sight glass with an etch mark where the liquid reference level is maintained. The tube is contained in a cassette reel, and a readout or data acquisition unit is located in the hub of the cassette reel. The cassette reel is mounted horizontally on a surveyor's tripod.

In use, the probe and liquid-filled tube are paid off the cassette reel and the probe is positioned at various distances from the end of an underground pipe where measurements are required. Readings are taken which correspond to the difference in elevation between the probe's elevation and the reference elevation on the cassette reel. Either manually, or on a computer, the readings are then plotted to profiles.

SPECIFICATIONS

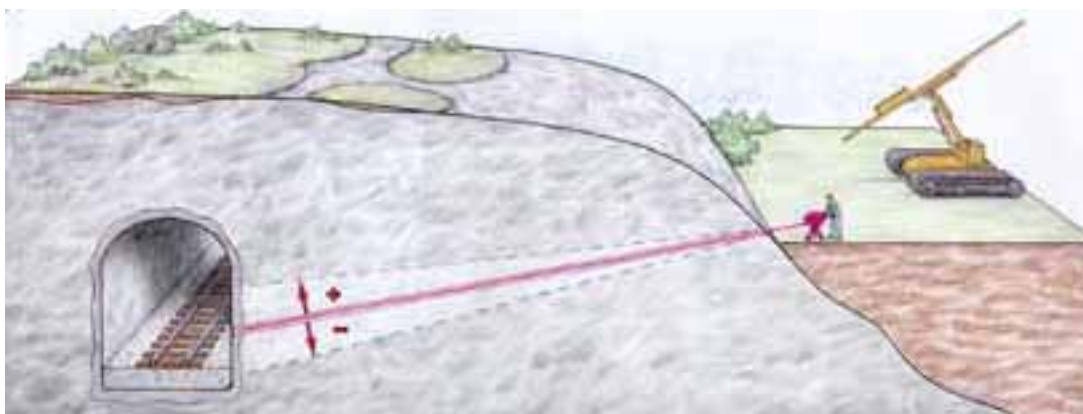
- Tube assembly lengths: 50 m 100 m 150 m (164, 328, or 492 ft)
- Tube assembly weights: 20 kg 25 kg 34 kg (44, 55 or 75 lb)
- Level range: Standard: 10 m (33 ft) - other ranges available
- Read out: LCD 4+1 digits with 0.001 m (0.01 ft) resolution
- Accuracy: In normal use better than 5 mm (0.15 ft)
- Operating temp: -20 to +70 °C (-4 to +158°F)
- Supply voltage: 9-30 VDC with alkaline battery cells



KEY FEATURES

- **Borehole Alignment**

Keep tolerances at guided drilling or boring works



- **Buried Pipes**

Plot vertical profiles of buried pipes and conduits



- **Settlement Monitoring**

Monitor settlement under embankments and landfills

