

Settlement profile gage



Description

The **portable settlement profile gage** can measure a settlement or heave about banking, road, LPG, structure of LNG tank exactly.

The profile gage has probe which is connected with signal cable and liquid twin tube. In side of tube, ethylene glycol is filled.

When a probe pass through a inclinometer casing or PVC pipe a probe record reservoir pressure cap then calculate as vertical displacement.

A probe can detect 10m H₂O vertical displacement by 1kg/cm² semiconductor pressure sensor

Applications

It is very useful to measure vertical displacement as following at the construction sites.

- Road construction in a bank or dam vertical displacement
- Foundation of building or water tank's settlement or heave.
- Foundation of abutment or bridge pier
- Measuring settlement of ground

Specification

Model	5200
Sensor element	Semiconductor pressure sensor
Liquid head	0~10m H ₂ O
Resolution	0.01% FSR
Accuracy	0.1% FSR
Operating temperature	-10~60°C
Measure length	30m / 50m / 100m
Dimensions	Probe Ø35×200mm
	Reel Ø600×200mm
	Tube ID Ø8×OD Ø10mm polyurethane
Liquid	Ethylene glycol + distilled pure water
Signal cable	Ø6.4mm, 0.24mm ² ×4C shielded polyurethane sheath cable
Material	Aluminum pipe

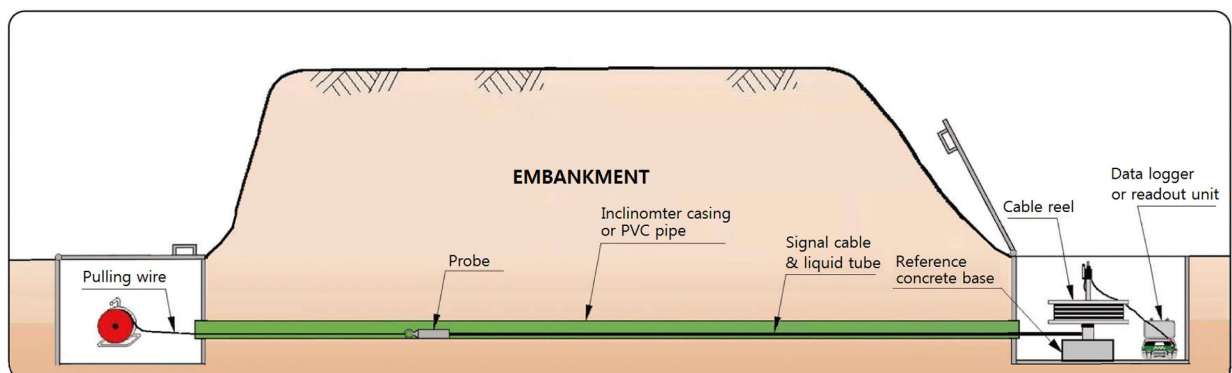
The readout

It is connected to the system such as the voltage readout units, or data logger as it is the electrical sensor that output mV.

- ACE-1500 (MEMS readout)
- ACE-900 series (MEMS mini logger)
- ADL-200A (Smart logger)
- AL Module (Smart LoRa system)

Ordering information

- Distance of installation
- Embedment tube material
- Return reel set



[Installation of profile gage]