

HYDROSTATIC PROFILER

MODEL 4875

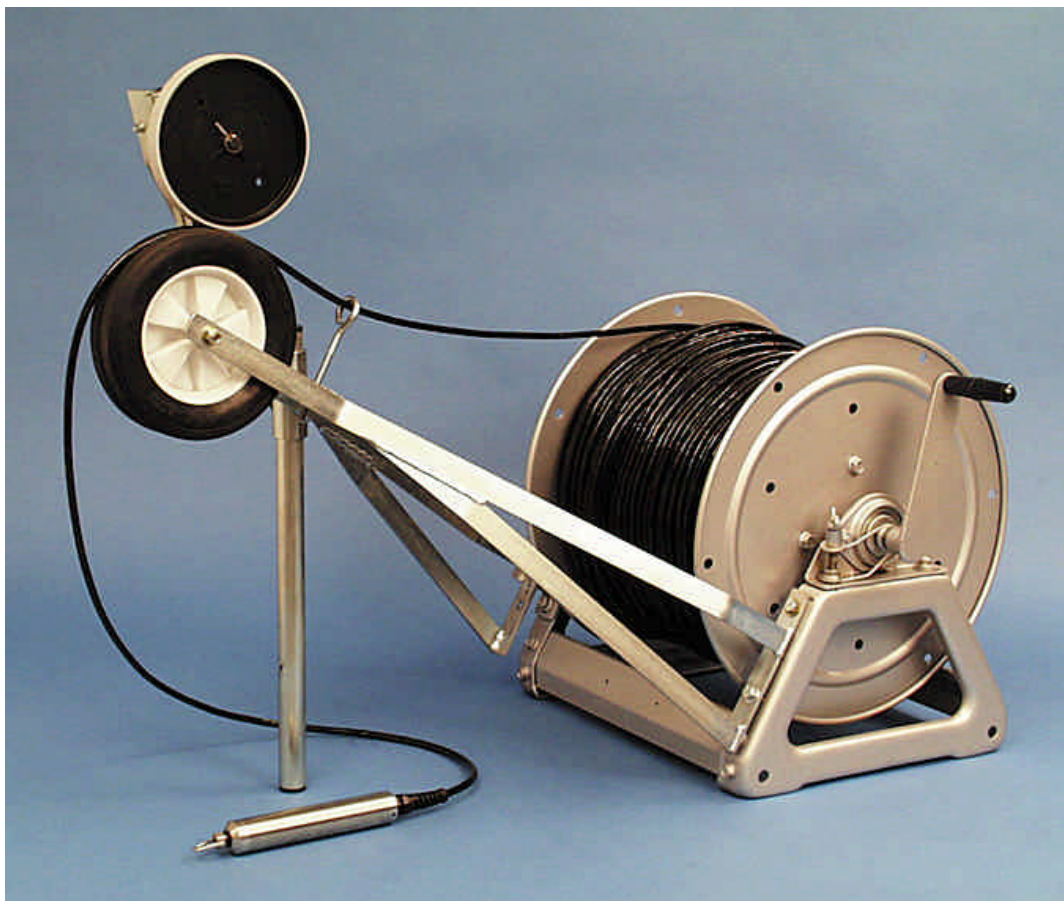
The Geotechnical Systems Australia Pty Ltd **Hydrostatic Profiler** has been designed to measure vertical displacement at intervals along a semi-rigid access tubing.

The consumables are low cost and the measuring instrument can be used on any number of installations.

APPLICATIONS

Measurement of vertical displacement in

- Embankments
- Tailings dams
- Roads
- Foundations
- Bridge Piers & Abutments



OPERATION

The measuring instrument consists of an accurate pressure transmitter housed in a probe connected by an electrical cable with an integral vent tube to a manual winch. From the winch the cable is connected via slip rings to the digital readout. The pressure transmitter has automatic temperature compensation and barometric equalisation built in.

The tubing is placed in a sand bed during the construction process. The tubing is then filled with water and the probe drawn through. Pressure readings are taken at regular intervals. By comparing profiles taken at different times the displacement of the tube can be determined. The reference pins enable the tube profile to be related to a known datum by conventional survey techniques.

The process can be carried out as a two-man operation with one pulling the draw cord through and the other controlling the winch and booking the readings. Alternatively the process can be reduced to a one-man operation by the addition of a return pulley at one end of the access tube. This has the additional benefit of allowing installation in a location where final access is only available at one end of the tube.



ISO 9002 Lic 4022
Standards Australia

GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

ACN 006 720 887
ABN 28 006 720 887



SPECIFICATION

HYDROSTATIC PROFILER

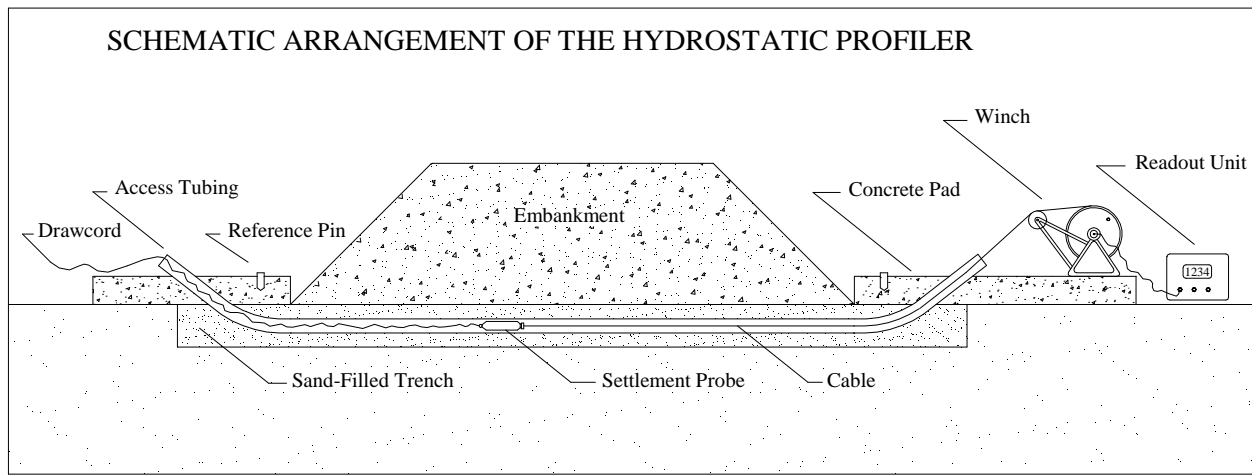
Model 4875

Transducer Range	0 - 5 or 0 – 10 meters head of water
Resolution	1.0 or 2.5 millimeters respectively
Maximum Length of Access Tubing	300 meters
Access Tubing	Dia. 75 mm Class 12 Polypipe

INSTALLATION

The hydrostatic profiler is supplied ready-to-use, the access tubing can be supplied by GSA or sourced locally. Additional load bearing settlement plates can be supplied to ensure the access tubing moves with the soil in soft ground areas such as tailings dams.

The access tubing is laid in the sand bed and the concrete pads cast prior to placement of the embankment or other structure. End caps can be supplied to prevent ingress of debris and vandalism.



READOUT UNIT Model 4875 - 4

The readout unit is dedicated to the hydrostatic profiler and provides a digital output in millimeters.

ORDERING INFORMATION

When ordering, please also specify

- Transducer Range (0 - 5m or 0 - 10m)
- Required Cable Length on Profiler Drum (Model 4875-3)
- Length of Nylon Draw Cord (Model 4875-5)
- Length of Access Tubing (Model 4875-7)
- Number of Settlement Plates (Model 4875-8)
- Number of Protective Covers (Model 4875-9)
- Return Pulley (Model 4875-10)

Because Geotechnical Systems is continually improving its products and processes, information contained within this brochure is subject to change without notice.

For more information or to discuss your application, contact...

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