

# HYDRAULIC EARTH PRESSURE CELL

## MODEL 2000



## APPLICATIONS

Hydraulic Earth Pressure Cells are designed to measure stress acting on a plane surface and are typically installed in:

- Earth embankments
- Dams
- Foundations, retaining walls and piles
- Against pipelines and culverts
- Against and under buildings
- In railroad bases
- Beneath raft foundations
- Tunnel linings

## OPERATING PRINCIPLE

The Geotechnical Systems' Hydraulic Pressure Cells are constructed from two circular stainless steel plates welded together around their periphery. The annular space between these plates is filled with an incompressible fluid.

The cell is connected via a stainless tube to a transducer forming a closed hydraulic system.

The stress is then converted to a signal and may be remotely read on a variety of portable readout units or data loggers.



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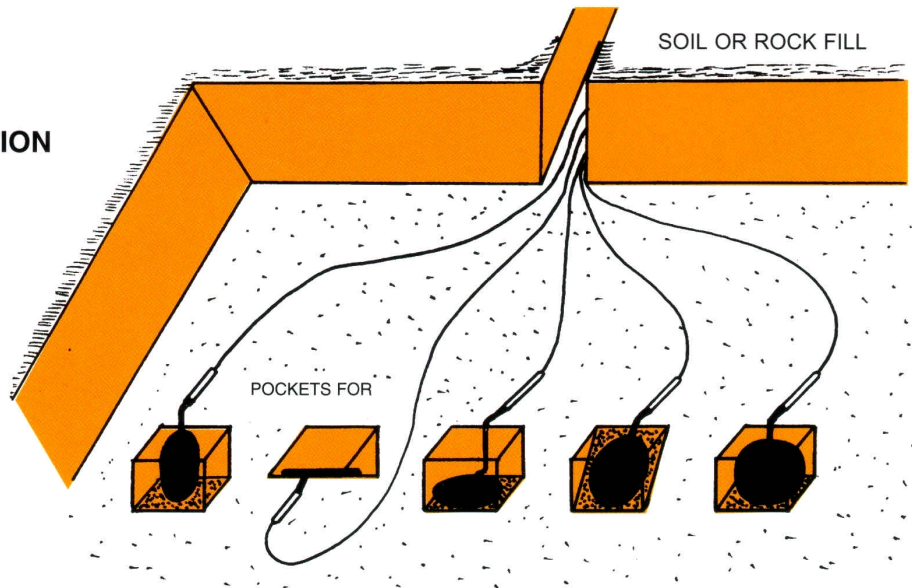
Specialists in Geotechnical Instrumentation

ACN 006 720 887  
ABN 28 006 720 887



**SPECIFICATION****Hydraulic Earth Pressure Cell****Model 2000**

Dimensions	230mm diameter
Weight	1.8 kgs
Transducers	Vibrating Wire, Piezoelectric
Connecting tube length	300mm
Range	Depends on transducer selected

**TYPICAL INSTALLATION OF TOTAL EARTH PRESSURE CELLS****FEATURES**

- Long term stability
- High accuracy and sensitivity
- Constant monitoring capabilities
- Ease of logging
- Either Piezo electric or Vibrating Wire Transducers
- Due to inherent high sensitivity it is not necessary to produce a large strain in the area monitored to create stress
- Low cost
- Manufactured locally with back-up

**ANCILLARY EQUIPMENT**

- Portable readout units
- Single channel Data Loggers
- Multi channel Data Loggers
- Terminal stations

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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