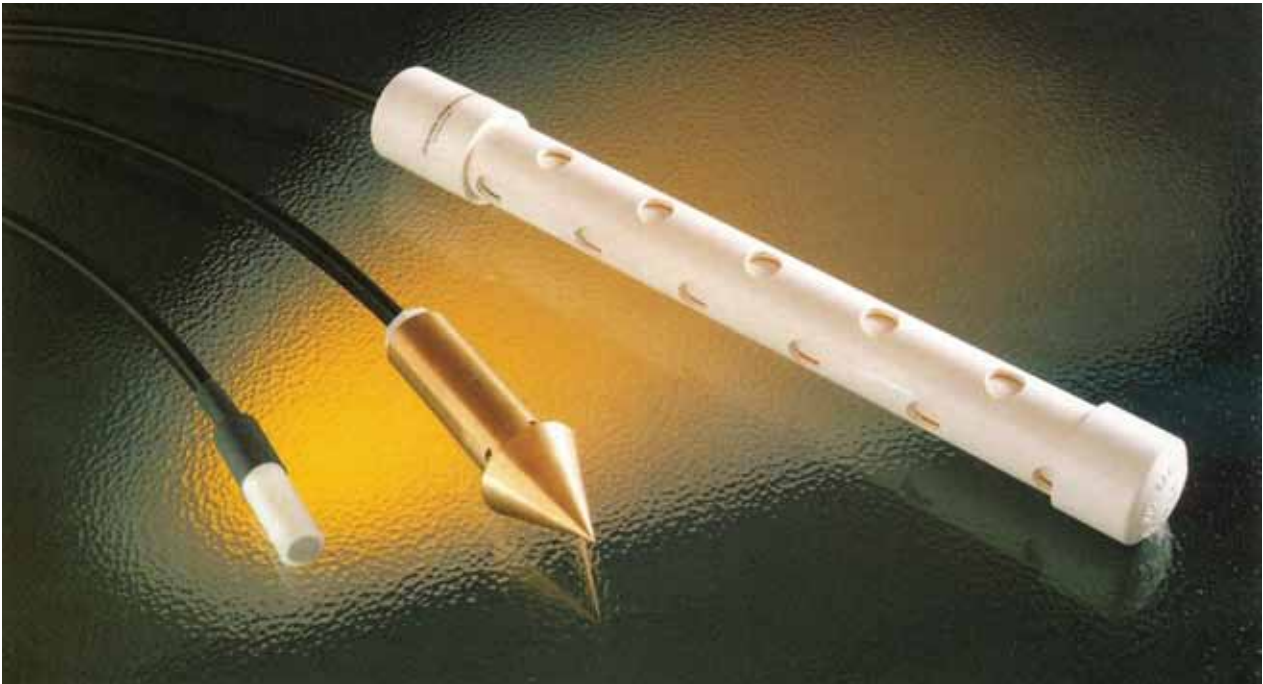


### MODEL 1100

The Geotechnical Systems Australia Pty Ltd [Pneumatic Piezometer](#) has been designed to monitor pore water pressure within earthen masses.



### SPECIAL FEATURES

- Operates over large pressure range
- Long term stability
- High sensitivity
- Comparatively small in size
- Delivered ready for installation
- Corrosion free construction
- High resolution
- Low cost installation
- Does not require pre-saturation of filter
- Low diaphragm displacement

### OPERATING PRINCIPLE

Geotechnical Systems' Pneumatic Piezometers operate on the principle of pressure equilibrium. Each Piezometer contains a rubber diaphragm upon which the pore water applies pressure. In order to measure the pore water pressure, pressure is applied to the reverse side of the rubber diaphragm until equilibrium is reached. Once the diaphragm is in a state of equilibrium the pressure is read using a Pneumatic Readout Box.

### APPLICATION

Pore water pressure, using the Pneumatic Piezometers, can be measured in both saturated and partially saturated soils within embankments, compacted fills and boreholes. The Piezometers can therefore be used to assess: stability, permeability, hydrological aspects of water supply and underground construction such as tunnelling. Each piezometer is delivered ready to install and due to their small nature it is possible to have multiple Piezometer installations within a borehole.

# Pneumatic Piezometer

<b>SPECIFICATION</b>	<b>PNEUMATIC PIEZOMETER</b>	<b>Model 1100</b>
Pressure range:		0-14000 Kpa
Resolution:		Equivalent to readout
Accuracy:		± 0.4 Kpa
Dimensions:		Dia. 16mm O.D. x 63mm
Weight:		10g
Maximum tube length:		200m
Filter:		50 micron
Operating temperature:		0-60 <sup>0</sup> C



*Since Geotechnical Systems is continually improving its Products and Processes, information contained within this brochure is subject to change without notice.*

## AUXILIARY EQUIPMENT

To read the pore water pressure applied to the Pneumatic Piezometer, a pneumatic readout box (Model 9115) is connected via a quick connect fitting. If a Pneumatic Piezometer is to be driven into the ground, brass push in tips can be attached, upon request. to the Piezometer. If many Piezometers are to be read, a terminal box acting as a junction would be recommended. This enables all Pneumatic Piezometers to be easily and quickly read at one location.

## ORDERING INFORMATION

When ordering Geotechnical Systems' Pneumatic Piezometers, please specify the following:

- Length of twin tubing (allow 2% extra)
- Specify whether or not male or female quick connect fittings are required.
- Whether a readout box, brass push in tips or terminal box options are required.