



Pneumatic Piezometer Model 1121-GS-PP02

FEATURES

- Simple yet accurate
- Reliable and economical
- Corrosion resistant construction
- Rapid response due to low volume change
- Choice of two filter types
- Tested to 200m

APPLICATIONS

- Slope stability monitoring
- Groundwater and hydrogeological studies
- Dewatering and drainage monitoring
- Dam/earthfill embankment monitoring
- Retaining wall monitoring
- General geotechnical investigation



General

The Geosystems Pneumatic Piezometer is a robust instrument used to remotely measure pore pressures in both saturated and unsaturated soils.

polyethylene filters (60 micron average pore size).

The PP02 piezometer can be used with any pneumatic readout unit, but has been specifically designed for use with the Geosystems PR02 readout unit. This unit has facilities for both Nil Flow and Low Flow reading techniques.

Description

The Model PP02 Pneumatic Piezometer operates on the principle of pressure balance across a diaphragm located inside the piezometer tip. The pore water pressure acting on the outside of the diaphragm is balanced by the internal gas pressure supplied by the readout unit.

The piezometer is compatible with both Nil Flow and Low Flow reading techniques.

The Model PP02 piezometer can be supplied with High Air Entry Ceramic Filters (2 micron average pore size), or Low Air Entry Sintered

Specifications

Range	0-200m water (300 psi)
Accuracy	0.1% FS
Resolution	0.1m
Materials	PVC, stainless steel and polyethylene
Dimensions	32 mm OD x 125 mm Weight 0.3 kg
Filters	HAE Ceramic (2 micron) LAE Polyethylene (60 micron)

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Accessories

Tubing: Twin nylon tubes (3.2mm/1/8" O. D.) with polyethylene outer sheath (2x4.8mm/3/16"O.d. also available).

Joiners: Brass, in-line, compression type for splicing twin tubing in the field.

Couplings: Brass, quick connect, self-sealing type, to connect tubing to readout. Two required for each piezometer (not required with terminal panel).

Terminal Panels: Used with multiple piezometer installations to protect tube ends and to permit reading to be taken quickly. Panels can be fitted with manifolds and isolating valves, or with quick connect couplings for each piezometer.

Enclosures: Lockable cabinet constructed in aluminium or epoxy coated steel. Enclosures can be fixed to walls or post mounted with tubing ducted through the base.

Readout: The Geosystems readout unit is portable, self contained and robust for reading all types of pneumatic transducers. Model PR02 is fitted with a digital display and a backup analogue gauge.

Due to on-going design improvements and reviews, we reserve the right to amend product and specifications without prior notice



FOR FURTHER INFORMATION

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