

Pneumatic Piezometer

Description

NOTE: This is a legacy and discontinued product not available for order.

RST Pneumatic Piezometers monitor pore water pressure in geotechnical applications where stability levels are critical, such as in embankments and slopes. They utilize a direct reading pneumatically operated diaphragm, making operation simple while ensuring long term stability and high accuracy at a low cost. Employing the lowest (0.002 cc) displacement available, measurements can be made under essentially zero volume change conditions. Time lag problems are minimized, and accuracy improved.

PNEUMATIC PIEZOMETER SPECIFICATIONS

ITEM	SPECIFICATION
Sensitivity	0.1% F.S.
Displacement	0.002 cc
Materials	Nylon 12 with EP diaphragm
Accuracy	±0.25% F.S.
Standard Resolution	1 kPa / 0.1 psi or 0.1 kPa / 0.01 psi with C109 readout.
Repeatability	±0.35 kPa / ±0.05 psi
Range	0-2000 kPa / 0-200 psi with standard C109 readout and T-102 tubing
Linear Range	21-2000 kPa / 3-200 psi with standard C109 readout and T-102 tubing

P-100 MINIATURE SPECIFICATIONS

ITEM	SPECIFICATION
P-100 Miniature	The model P-100 is a general-purpose piezometer incorporating a 50 micron stainless steel filter. It is capable of monitoring pore pressure from 0-2000 psi (0-14,000 kPa). The P-100 combines the features of high accuracy and reliability, small size, low cost, and extremely low displacement, with the ability to be constantly monitored.
Dimensions	1.59 cm X 6.30 cm long (.625 in. X 2.48 in. long). Filter area: .974 cm ² / .151 in. ²
Applications	General-purpose miniature. Multiple installations are possible even in small boreholes.

P-100 STANDARD SPECIFICATIONS

ITEM	SPECIFICATION
P-100-1 Standard	The model P-100-1 consists of a P-100 transducer encapsulated in a slotted PVC, sand-filled, Casagrande type piezometer body. This body employs a protected 70 micron porous plastic filter, in addition to the 50 micron stainless steel filter in the P-100.
Dimensions	3.35 cm X 22.8 cm long (1.32 in. X 9.0 in. long). Filter area: 133 cm ² / 21 in. ²
Applications	Recommended general purpose type. Casagrande enclosure for added mechanical protection and increased filtration.

SPECIFICATIONS