

Strain Gauge Piezometer

Description

The Strain Gauge Piezometer is specifically designed to meet the rigorous environments encountered in level measurement applications and to provide repeatable, precision depth measurements. It is available with either a ported nose cap or a piezometer nose incorporating a sintered stainless steel porous filter.

Ideal for small bore applications, and the ability to withstand rigorous environments encountered in ground and sea water depth measurements, the Strain Gauge Piezometer can also be used for dynamic pore pressure measurement applications. Highly reliable multi-stage transient* protection is standard. Each unit is shipped with a calibration card that specifies I/O conditions as well as actual data reflecting the unit's static accuracy and thermal characteristics.

STRAIN GAUGE PIEZOMETER SPECIFICATIONS

ITEM	SPECIFICATION
Accuracy	$\pm 0.1\%$ FS T.E.B.*
Standard Pressure Ranges	0 - 1 m through 0 - 300 m
Compensated Temp. Range	-10 $^{\circ}$ C to 80 $^{\circ}$ C
Field Rangeability	Yes
Pressure Output	Current: 4-20 mA Voltage: 0-5V 0-10V
Temperature Output	Optional
Wetted Materials	Standard 316L SS Polyamide Fluorocarbon
Electrical Termination	Vented Hytel Cable or Sealed Cable
Level Range (user-specified)	Infinite between 0 to 3 through 0 to 900 ft. WC
Dimensions	109 mm X \approx 21 mm

*T.E.B.: Total Error Band: Includes the combined effects of non-linearity, hysteresis and non-repeatability as well as thermal dependencies, over the compensated temperature range, expressed as a percentage of the Basic Range. All intermediate ranges are realized by deranging from standard Basic Ranges of 30, 100, 300 and 900 ft WC.

OUTPUT SPECIFICATIONS

SUPPLY	VDC	8 - 28 VDC
OUTPUT	2 wire analog	4 - 20 mA
SPECIFICATIONS		