VW Type Piezometer

Description

VW Piezometer type pore pressure meter is designed to test the pore water pressure and liquid pressure of vessel, pipe line, soft ground or embankment foundation, embankment and inside the boring hole.
High accurate NTC thermistor and arrestor were mounted in order for zero compensation by change of the Temp. and also high density epoxy resin and stainless steel special materials were adopted to allow semi-permanent measurement.

Application

* Measurement of pore water pressure at soft ground field
* Water level measurement at river, reservoir and standpipe
* Research of stability of slope and ground
* Measurement of leakage and underground water flow of dam, embankment and lake.

Feature

* High stability that can be worked under extreme conditions.
* Excellent reproducibility and responsibility which is free from the cable length and change of resistance
* Optimization by use and supersensitive design
* High accurate temp sensor and lightning protection device mounted.

Specification

Model	SJ - 4000	SJ - 4050
Type	General	Heavy duty
Capacity	2-70kg/cm^2	
Max. Pressure	150 % FSR	
Resolution	0.025% FSR	
Accuracy	+/-0.1% FSR	
Non-linearity	+/-0.5% FSR	
Operatration Temp.	-20 °C ~ 50 ° C	
Temp sensor	NTC Thermistor (3KD-ATF)	
Temp sensor operation range	Thermistor: -40 °C ~ 80 ° C	
Temp sensor accuracy	Thermistor : ±1°C	
Filter	Stainless sintered filter 70μm	
Lightening Protection	Tube Gas Arrester (Frequency output line)	
Main material	Stainless special steel, High density epoxy potting	
Dimension	130mm X Ø20mm	190mm X Ø34.9mm
Weight	0.2kg	
Material	Special stainless steel , High density epoxy	

Installation

* If Air is in piezometer, reading value can be lower than real value. So piezometer shall be inputted to water from before 24 hours of installation
* If many cable can cause loss of pore pressure. So installer install less than 3 piezometers in one bore hole.
* If settlement is occurred and signal cable has not extra length, cable can be cut. So When piezometer is installed, 10-20% extra length cable is installed.
* if isolation between piezometer is poor, reading value can be not accurate.
* Installer shall not use bentonite power, use bentonite pellet.
* If top of signal cable is contacted with ground, water can be insert to cable. Therefore top of cable shall be cover by cable cap or others.
* The initial days of installation, pore pressure can be increaed by expansion of bentonite. But over pressure is disappearred after few days.
* Signal cable shall be protected by PVC pipe or hose