

PIEZOMETER



Model EPP-30V Vibrating Wire Piezometer

EPP-30V is a vibrating wire piezometer used to measure pore water pressure in soil, earth/rockfills, foundations and concrete structures. EPP-30V is of stainless steel construction and hermetically sealed under a vacuum of 0.001 Torr. Each sensor has built-in thermistor for temperature measurement and surge arrester for lightning protection. A glass to metal seal solder pin connector is provided for easy cable connection. The piezometers are suitable for mounting at different levels in a borehole using the grout-in technique.

SPECIFICATIONS

| | |
|-------------------|---|
| Range (MPa) | 0.2, 0.35, 0.5, 0.7, 1.0, 1.5, 2.0, 3.5, 5.0, 10.0, specify |
| Accuracy | ± 0.25 % fs standard ± 0.1 % fs optional |
| Non linearity | ± 0.5 % fs |
| Over range limit | 150 % of range |
| Temperature limit | -20° to 80° C |
| Thermistor | YSI 44005 or equivalent |
| Dimension (Ø x L) | 42 x 185 mm |



Model EPP-40V Vibrating Wire Slim Piezometer

EPP-40V is a small size vibrating wire piezometer specifically designed to be used for pore water pressure measurement in small diameter boreholes and standpipes. It is of stainless steel construction with built-in thermistor for temperature measurement and surge arrester for lightning protection. A glass to metal solder pin connector is provided for easy cable connection. The sensor is hermetically sealed with a vacuum of around 0.001 Torr inside it.

SPECIFICATIONS

| | |
|--------------------------------------|--|
| Range (MPa) | 0.35, 0.5, 0.7, 1.0, 2.0 |
| Accuracy | ± 0.2 % fs standard ± 0.1 % fs optional |
| Dimension (Ø x L) | 19 x 155 mm |
| Other specifications same as EPP-30V | |



Model EPP-60V Vibrating Wire Low Pressure Piezometer

EPP-60V is a low pressure sensor, extensively used for settlement measurement and water level/water pressure measurement in boreholes. It is available in two versions.

SPECIFICATIONS

| | |
|--------------------------------------|----------------------------------|
| Electron Beam Welded | |
| Range (MPa) | 0.10, 0.20 |
| Dimension (Ø x L) | 30 x 160 mm |
| Glass to metal solder pin connectors | |
| Vented Tube Cable | |
| Range (MPa) | 0.035, 0.07 |
| Dimension (Ø x L) | 30 x 160 mm |
| Cable | CS-1102 vented 1 m long; specify |
| Other specifications same as EPP-30V | |



Model EPU-20V Vibrating Wire Uplift Pressure System

EPU-20V is a vibrating wire uplift pressure measurement system that uses a vibrating wire pressure sensor. It is designed for monitoring uplift pressure of water in foundation of dams and concrete structures. The sensor is similar to EPP-30V except that instead of filter, a 25 mm BSP adaptor is provided for pipe connection. A perforated/non-perforated pipe is inserted in the borehole, at the top of which EPU-20V is mounted through valves and fittings.

SPECIFICATIONS

| | |
|--------------------------------------|---|
| Range (MPa) | 0.2, 0.35, 0.5, 1.0, specify |
| Accuracy | ± 0.25 % fs standard ± 0.1 % fs optional |
| Dimension (Ø x L) | 42 x 210 mm |
| Other specifications same as EPP-30V | |