

# VW PIEZOMETER

## INTRODUCTION:

The VW Piezometers of PMT are designed and developed to monitor:

- Pore water pressure
- Uplift pressures in dam foundations
- Ground water elevations
- Slope stability and land slide monitoring
- Water Pressure behind tunnel linings
- Pressure in tanks and pipelines

## FEATURES:

- High stability and reliability
- Built-in temperature sensor
- Built-in surge protection
- Reading not affected by cable length
- Rugged in construction

## DESCRIPTION:

The VW piezometers convert water pressure on the diaphragm to be measured into an equivalent frequency signal. The pressure on the diaphragm changed by fluid pressure causes a change in tension of the wire. The wire excited by the plucking vibrates at its resonant frequency and the frequency signal is transmitted through a cable to the readout/logger unit.

Different Models of Piezometers are available depending upon application area.

- Standard Piezometer
- Heavy Duty
- Drive-in Piezometers
- Low Pressure Piezometers
- Multipoint Piezometers

## SPECIFICATIONS:

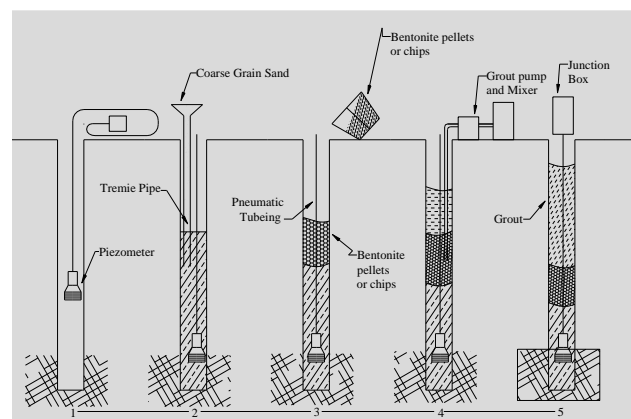
|                                     |  |
|-------------------------------------|--|
| Model                               | 1801V-P                                    |
| Type                                | Standard/Drive in/Heavy duty               |
| Sensor element                      | VW sensor                                  |
| Range                               | 2 to 70 kg/cm <sup>2</sup>                 |
| Over range capacity                 | 150% FSR                                   |
| Resolution                          | 0.02% FSR                                  |
| Accuracy                            | +/- 0.1% FSR                               |
| Operating temperature               | -30 to 85 °C                               |
| Thermal zero shift                  | Less than 0.003 Kg/cm <sup>2</sup> /°C     |
| Built in temperature device         | Standard: RTD      Optional: Thermistor    |
| Temperature device range            | RTD:-45 to 100°C    Thermistor:-30 to 80°C |
| Material                            | All stainless steel                        |
| Filter                              | 50 micron sintered stainless filter        |
| Built in lighting protection device | Gas tube arrester (Frequency output lines) |
| Signal cable                        | 4core shielded cable with PVC jacket       |

|                             |  |
|-----------------------------|--|
| <b>Ordering Information</b> | Model / Range                              |
|                             | Cable Length / Junction Box / Splicing Kit |
|                             | Readout / Logger/ Wireless                 |

*Dimensions and ranges are nominal only and can be modified to suit project requirements.*



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**SETUP**