



MODEL SME-2060

## VIBRATING WIRE PORE PRESSURE METER

### FEATURES

- \* Reliable data
- \* Accurate measurements
- \* All stainless steel body
- \* Rugged design.
- \* Hermetically sealed
- \* Long term stability



### APPLICATION

- \* To measure pore water pressure or piezometric pressure in Earth & Concrete Dams, Barrages, Bridges etc.
- \* To measure water, fluid or gas pressure in pipe, tanks, canals etc.
- \* To measure water level in lake, canals, open tank etc.
- \* To measure uplift in deep foundations, Piles, tunnels seepage.

### DESCRIPTION

Vibrating wire piezometer is suitable to measure piezometric pressure or pore pressure in Dams foundations and embankment. It has a metallic diaphragm separating the pore water from measuring system. A tension wire is clamped at the midpoint of metallic diaphragm such that the deflection of the diaphragm causes change in wire tension and consequently its natural frequency.

The Readout unit model SME 2460-S generates voltage pulses to coil magnet which in turn makes the wire to vibrate to its natural frequency. The peak voltage generated in coil due to wire vibration is converted into frequency signal. The readout unit SME 2460-S is capable of showing data in time period, frequency and also in direct engg. Units of the parameter. The piezometer is available in different shape and size to suit the requirement.

## ADVANTAGE

Vibrating wire principle makes the piezometer most reliable for measurement. The frequency output makes the sensor most suitable for long term stable data. The cable length as long as one kilometer can be spliced without affecting the original data.

## SPECIFICATIONS

Model	:	SME-2060
Range	:	0-5 kg/cm <sup>2</sup> to 0-50 kg/cm <sup>2</sup>
Over pressure	:	150% of FSD
Accuracy	:	± 0.5%fs or 0.25%fs on demand
Temperature range	:	-20°C to 70°C
Temperature effect	:	±0.05%/°C FS
Thermister	:	Provided for temperature correction. (optional)
Lighting Arrester	:	Provided (optional)
Insulation resistance	:	better than 500 mega ohms
Electrical connection	:	4 core shielded cable
Humidity	:	0 - 95% RH
Material	:	stainless steel
Sealing	:	Hermetically sealed

## ACCESSORIES

Readout unit model SME 2460-S.

Terminal box.

Cable joint kit.

Due to continuous development program the specification and dimensions are subject to change without notice. Our engineers do undertake the work for development as per the customer's requirement.

## Sensors & Measurements Enterprises

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