



## AUTOMATIC WATER LEVEL RECORDER



### INTRODUCTION:

Model SIS 2000 Series Model SIS 2004 Automatic Water Level Recorder is designed for accurate, remote monitoring of ground water level in a reservoir/borehole, coastal and inland waters, ports, wells and rivers. It can also be used for recording water level in canals, open channels, sumps and underground and overhead tanks. This highly accurate and sensitive sensor gives water level in mm.



### FEATURES:

- Unprecedented sensitivity, long term stability and reliability.
- Isolation of the sensor assembly from the effects of total stresses acting on the body of the piezometer.
- Robust and sturdy construction.
- Corrosion resistant option available for coastal applications.
- Provision of thermistor for temperature measurement.
- Provision of gas discharge tube for lightening and surge protection.
- Suitable for remote reading, scanning and Data logging.
- No effect of cable length on performance of the sensor.



It essentially consists of a vibrating wire pressure sensor provided with a vent tube of required length running parallel to the sensor cable. The vent tube and cable are routed through a protective tube to a Digital read out unit or Datalogger, for displaying the water level in engineering units. A special cylindrical filter with conical tip is provided to give more surface area to the sensor. The filter is fixed on to the sensor body through a threaded connector which may easily be removed for saturation. Option of disc filter is also available.

A Protective pipe assembly is provided for the sensor which has provision for connection of PVC pipe on site in order to protect the installed sensor and the cable and vent tube on site.

A small water proof (IP 67) junction box to terminate the cable and the vent tube is available. This prevents the vent tube from getting clogged and allows easy extension of the cable as it emerges from the well/ borehole.

#### **Model SIS 2004 Specifications**

<b>Standard Ranges</b>	<b>10, 20, 30, 50 m water head. Other ranges available on request.</b>
<b>Nonlinearity %fs</b>	<b>± 1% FS</b>
<b>Material (outer body)</b>	<b>Stainless steel</b>
<b>Operating Temperature</b>	<b>-10 to 70°C</b>
<b>Coil Resistance</b>	<b>140 – 160 Ohm @ 25°C</b>
<b>Thermistor</b>	<b>YSI 44005 or equivalent (3k Ohm @ 25°C)</b>
<b>Surge arrestor</b>	<b>Citel/Bournes 90V Gas Discharge tube</b>
<b>Filter</b>	<b>High and low air entry Ceramic</b>
<b>Dimension</b>	<b>30mm dia x 195 mm overall length.</b>
<b>Cable</b>	<b>4 core cable encapsulated in a PVC tube, open to atmosphere. Maximum length 20 meter.</b>