

## HYDROSTATIC LEVEL TRANSMITTER - HLX

The pressure is sensed by a high purity Alumina ceramic diaphragm that has strain gauges bonded to the non wetted side. The ceramic sensing diaphragm is isolated from the fluid media by a flexible stainless steel diaphragm. The thin space between the two diaphragms is filled with a suitable oil. Direct fusion of the strain gauge and other trimming and compensating resistors to the ceramic diaphragm provides a very good linearity & stability.

The non-wetted side of the pressure sensor is vented to the atmosphere through a capillary vent tube provided in the signal cable. This allows any change in atmospheric pressure to be cancelled out allowing more precise measurement of water level. The integral electronics converts the strain gauge output signal to a two wire current loop signal. An electronic circuit provides a high degree of protection to the transmitter from large voltage transients due to nearby electromagnetic interference and lightning effect.



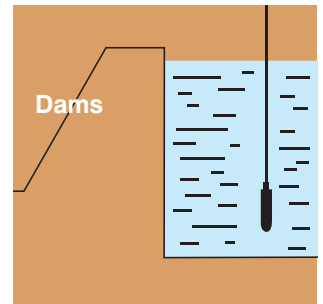
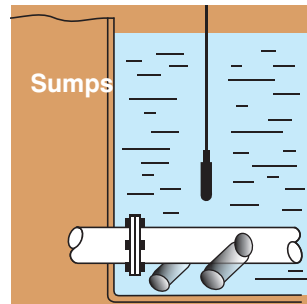
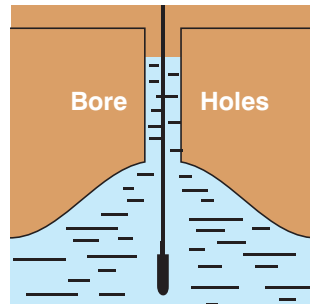
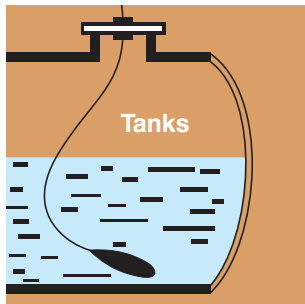
### SPECIFICATIONS

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Ambient Temp. Limits      | : - 20° - 80°C (Sensor)                                                 |
| Sensing Principle         | : Piezo - Resistive strain gauge                                        |
| Depth Measuring Ranges    | : 2.5, 5, 10, 20, 50 & 100 metres                                       |
| Overall Accuracy          | : 0.25% of range                                                        |
| Sensor Material           | : Stainless Steel 316                                                   |
| Protection Classification | : IP68 (submersible)                                                    |
| Electrical Connections    | : 4 core cable with vent tube and strain cord                           |
| Max. Suspended Length     | : 400 metres                                                            |
| Supply Voltage            | : 15 - 30V DC (Group II and G.P) 7 - 14V DC (Group I)                   |
| Output Signal             | : 4 - 20mA. 2 wire precalibrated for the specific depth measuring range |

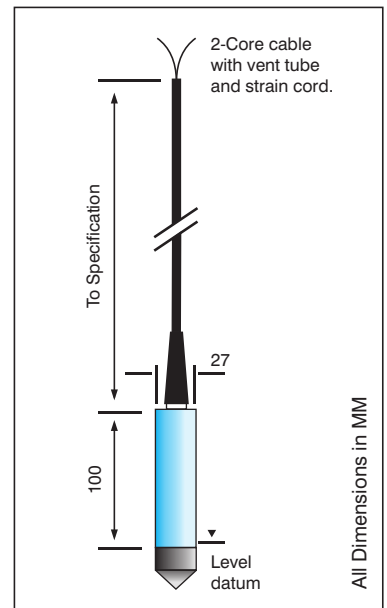
### ORDERING INFORMATION

- Depth measuring range in metres. (2.5, 5, 10, 20, 50, 100, metres.)
- Cable length required. (Max = 400 metres).
- Type of liquid if NOT water (standard calibration: SG=1).

### APPLICATIONS



### TYPICAL CONSTRUCTION OF HYDROSTATIC LEVEL TRANSMITTER



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Note: All dimensions in MM, unless otherwise specified.

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