

Specifying the MultiTrobe Level Sensing Probe

1 Description

The probe shall be constructed from uPVC 32mm tubing with moulded sensor units at regular intervals along the probe. Each sensor unit will be PVC injected to prohibit ingress of moisture, and the sensor material will be Avesta SMO254 stainless steel.

2 Mounting

The probe will be mounted in a turbulent area of the wet well, suspended on its own cable and connected to a 6mm stainless steel hook which would hang from a 30mm stainless steel angle containing a polyurethane squeegee pad positioned in the opening into the wet well, so that the probe can be removed without entering the wet well.

The squeegee will have a 30mm hole and slot, enabling the probe to be pulled through and cleaned.

Probe cable shall be run in a separate conduit away from any high voltage cables.

3 Sensors

10 sensors will be spaced along the length of the probe assembly, and each will be individually connected to a correspondingly numbered PVC/PVC .75mm flexible cable.

The moulded sensor unit will contain two Avesta sensors mounted on opposite sides of sensor unit. Each Avesta sensor will be 24mm high and no wider than 2mm, and will protrude from the surface of the PVC.

The probe shall be pressure injected with an epoxy resin to encapsulate all internal components and connections to form a rigid, homogenous unit.

Each sensor unit containing the two Avesta sensors will be rotated 90 degrees to the previous sensor unit to eliminate tracking between sensors.

4 Cable

The cable will be encoded with number and text along the entirety of the cable and at intervals not greater than 200mm, for identification. This cable will be dark blue in colour, with the cores light blue.

The flexible cables shall be capable of supporting the weight of the probe and cable, without the need for additional support.

The cable shall be secured to the top of the probe by a synthetic rubber compression fitting.

5 Warranty

The probe is covered by the manufacturer's two-year warranty.

