



YPL INSTRUMENTS PVT. LTD.

CONDUCTIVITY LEVEL SWITCH: YPL-CLS010

Description

It is a simple, low cost, point level controller designed for detection of Conductive liquids, having low densities, high viscosities, containing solid Particles and interface between nonconductive and conductive liquids.

Operation

It comprises of a probe, wired to a level controller. The probe Holds one common "Mass Electrode" and one or multiple "Control Electrodes" depending upon the number of levels To be controlled. All the electrodes are suitably insulated to Avoid electrical bridging. The lengths of "Control Electrodes" Correspond to the height of preset level points to be Controlled and the length of the "Mass Electrode" is kept Slightly longer than the longest "Control Electrode". If tank Is conductive, it can be used as a "Mass Electrode". Then number of control electrodes equals number of preset Levels. Level controller houses sensing electronics consisting Of power supply and signal conditioning circuit which provide A "Low AC Voltage" across mass and control electrodes. On Liquid reaching preset level point electrical circuit gets Completed generating a signal which is amplified to actuate A relay, whose potential free contacts are available for, Subsequent operations. On "Level Falling" the circuit breaks, Cutting out the relay.



FIGURE

Technical Specification

Switching Unit:

Housing	: Aluminum for back panel mounting/DIN Rail mounting
Cable Entry	: 2 Nos. 1/2" NPT
Ambient temperature	: 0 °C TO +60 °C
Mains Voltage	: 230/110 VAC (+/- 15%) 50Hz or 24V DC
Power consumption	: 1.9 VA
Output	: 1 set of potential free contact rated at 10 Amp, 250V AC for non-inductive loads.
Safety operation	: Field selected switch for minimum or maximum switching points.
Switch status display	: Green Led for normal & Red Led for alarm.
Response Time	: 0.5 Sec.

PROBE:

Housing	: Cast Aluminum
Probe type	: Solid (Upto3 meter) & Rope(Above 3 meter)
Mounting	: Screwed 1/2" BSP or Flanged
Electrode Insulation	: PVC (70°C), PTFE (200°C)
Mass Electrode	: One

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CONDUCTIVITY LEVEL SWITCH: YPL-CLS11

Control Electrodes	: One to Four
Voltage on the probe	: 12V AC Max. in vessel
Current	: <3 mA (between probe & tank wall through liquid)
Min. Conductivity	: 25µS
Max. Temperature	: 70°C (with PVC insulation), 200°C with PTFE
	Insulation
Max. Test Pressure	: 5Kg/cm ² at Ambient Temperature