

CONDUCTIVITY LEVEL CONTROLLER

Conductivity type Level Switch is simple, low cost, point Level controller that is used in variety of application for detecting level of conductive liquids. It is available in two versions – one is non integral (remote) and other is integral.

A low AC Voltage is connected via the control unit between the sensing electrodes and reference electrodes (tank wall in case of metallic tanks). As soon as the conductive material touches the electrodes, a low AC current starts to flow which operates the relay in the control unit.

Probe unit consists of electrode assembly and probe head. Electrode assembly consists of sensing electrodes (whose tip is at the point where level detection are required) and a reference electrode (required for non metallic tank). Control unit provides the visual indication for level and relay output whose potential free contacts are available for subsequent operation. The control unit houses sensing electronics consisting of power supply and signal conditioning circuit, which provide a low AC voltage across sensing electrodes and reference electrodes. Integral version does not have a separate control unit and the controller electronics is provided in the probe head.

Salient Features

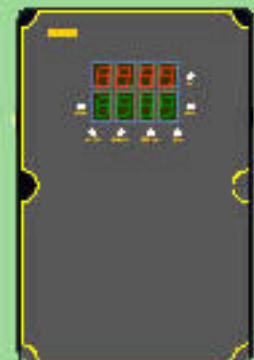
- o Uses proven level control techniques;
- o Wide range of application including corrosive media;
- o Simple to install;
- o Fail safe features incorporated;
- o It can be operated as independent level controller or differential level controller;
- o Separate module system for automatic home pump control;
- o Latching of switch is optional.

Application

Any conductive liquid used in industries. Such as water, Acids, Salts, Brewery Liquids, Juices, Milk, Liquid Ammonia, Condensate etc.



Probe



Controller

MODEL NO. – KLS-100

Specifications

Enclosure	: Cast Aluminium / MS Fabricated / Fiber Glass / DMC with polyurethane painted / Plastic.
Enclosure Protection	: IP - 66 / IP - 67.
Cable entry	: ¾ " ET, ½ " NPT, etc.
Process connection	: Flanged/Threaded as per BIS,BS,ANSI & others.
Probe type	: Rigid up to 3 Meters and Flexible up to 10 Meters.
Electrode material	: CS / SS 304, 304L, 316, 316L / Titanium / Hastalloy 'C' tip can be provided if required.
Electrode insulation	: PVC/PTFE/Rubber Lined, etc.
No. of preset level	: Up to 4 (four) for non-integral and Up to 2 (two) for integral.
Resistance	: 200Kohms between Reference & Sensing Electrodes.
Maximum operating Temp.	: 200°C for non-integral and 60°C integral Version / control unit.
Maximum Pressure	: 25 Kg/cm ² for rigid probe and 20 Kg/cm ² for Flexible.
Output	: DPDT/SPDT.
Rating	: 5A, 230V AC resistive, 0.25A, 230V DC inductive.
Power supply	: 110/230 ± 10% V AC, 50 Hz or 24V DC.
Indication	: LED red for Alarm & Green for normal.
Fail safe features	: Both high & low (Jumper Selectable).
Power consumption	: Less than 5 VA.
Operating Mode	: Independent of Differential (Jumper Selectable).
Maximum Humidity	: 95%.
Mounting	: Horizontal (with electrode guard) / Vertical.

Installation Accessories

Counter flanges with suitable gaskets, bolts, nuts, washers etc. It can be mounted internally or externally with a chamber to dampen the liquid level fluctuation due to stirrer inflow of liquid.



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