

LEVEL SWITCH

CONDUCTIVITY TYPE

INTRODUCTION

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 non-conductive and conductive liquids.

FEATURES

- No moving parts
- Multipoint switching upto 4 levels
- Auto sensitivity to liquid conductivities >25 us
- Option of Standalone system

CONSTRUCTION & OPERATION

The conductivity level switch is generally used as a Two Part system, consisting of conductivity probe, which has to be, wired to a separate controller. However, certain applications demand a standalone system, wherein control electronics is housed in an enclosure integral with the probe. Both options are available. The probe consists of a "mass electrode" and one / multiple "control electrodes", depending on the number of preset levels. All electrodes are insulated to prevent electrical bridging. The length of "control electrodes" corresponds to preset levels and "mass electrode" is longer than the longest "control electrode". The sensing electronics consisting of power supply and signal conditioning circuit which provides a "low ac voltage" across mass and control electrodes. On liquid reaching preset level point, electrical circuit gets completed & generates a signal, which is amplified to actuate a relay, with potential free contacts for subsequent operations. On the "level falling" the circuit breaks, cutting out the relay.



SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

PROBE

Enclosure	Cast Al, WP. IP-66 & Ex-proof Gr IIA & IIB
Conduit conn	WP., PG 11, Ex proof Brass ½" NPT
Process conn	40 / 50/ 80 NB, flanged to BS (ANSI or DIN stds, if required)
Process conn MOC	CS or SS304 or SS316
Electrode type	Solid upto 2 mtrs, Suspended upto 10 mtrs
Electrode MOC	SS304 or SS316, Hastelloy / Titanium tips provided for corrosive applications, if required
Electrode insulation	PVC (70°C), PTFE (100°C)
Mass Electrode	One
Control Electrodes	One to Four
Signal Voltage	6 VAC, 20mA
Resistance	40K Ω (max) between mass & control electrode
Min Conductivity	25 us
Max Temperature	70°C (with PVC insulation) 100°C (with PTFE insulation)
Max Test Pressure	5Kg/cm ²

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OPTION

Auto / Manual mode thro` toggle switch, can be provided in controller, if required

SERVICE

Water, Milk, Fruit juice, Effluents, Caustic, Phosphate, Sludge, Coolant & H2SO4

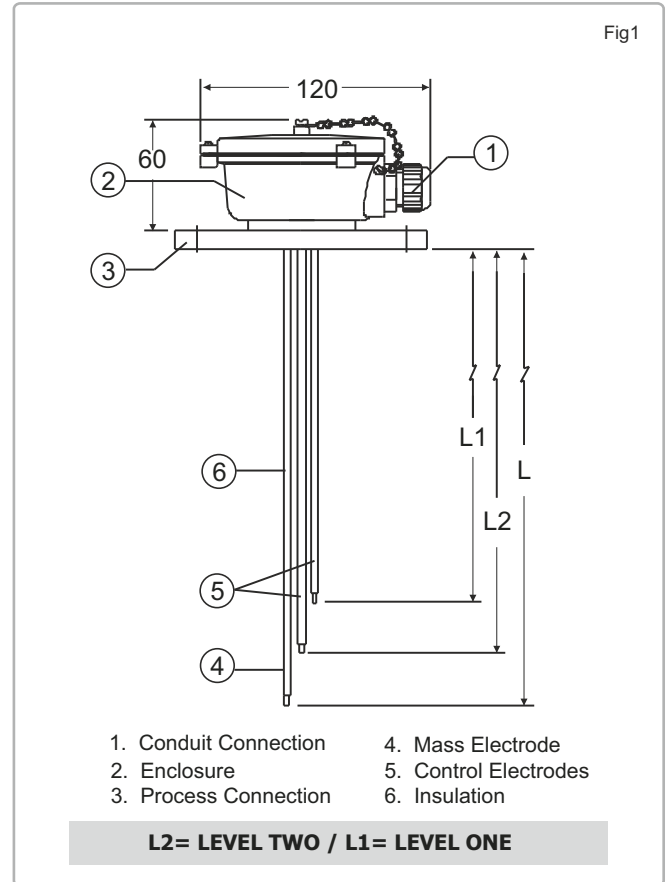
APPLICATIONS

Sump, Pump, Reservoir level control, Cooling towers, Water, Waste water & Sewage treatment plants.

ORDERING INFORMATION

ITEM	MODEL	ORDER CODE
CONDUCTIVITY TYPE LEVEL SWITCH	CNS201	2521

CONSTRUCTION



ENQUIRIES

Instruments: sales@radix.co.in
Sensors: sensors@radix.co.in
Gauges: gauges@radix.co.in
Automation: automation@radix.co.in
Level: level@radix.co.in

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