Conductivity Type Level Switch-CNS Techtrol



SINCE 1984

It is a simple, low cost point level controller designed for detection of conductive liquids having low densities, high viscosits, contaning solid particles and interface between non-conductive and conductive liquids.

Special Features:

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

Construction & Operation : (Fig. 1)

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:

PROBE

: Cast AI, WP. IP-66 & Ex-proof Gr IIA & IIB Enclosur : WP., PG 11, Ex proof Brass 1/2" NPT Conduit conn Process conn : 40 / 50/ 80 NB, flanged to BS (ANSI or DIN stds, if required)

: CS or SS304 or SS316 Process conn MOC

: Solid upto 4 mtrs, Suspended upto 10 mtrs Electrode type Electrode MOC : SS304 or SS316 , Hastealloy / Titanium tips

provided for corrosive applications, if required

Electrode insullation: PVC (70°C), PTFE (200°C)

Mass Electrode

Control Electrodes : One to Four Signal Voltage : 6 VAC, 20mA

Resistance : 40K Ù (max) between mass & control lectrode

Min Conductivity : 25 us

Max Temperature : 70°C (with PVC insulation)

200°C (with PTFE insulation)

Max Test Pressure : 5Kg/cm²

Option:

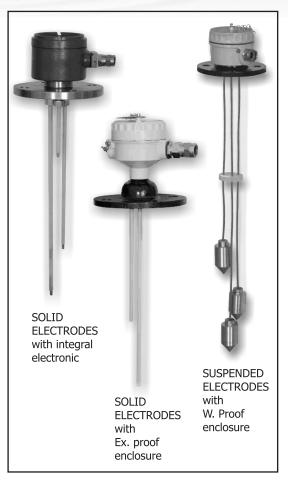
Auto / Manual mode thro` toggle switch, can be provided in controller, if required

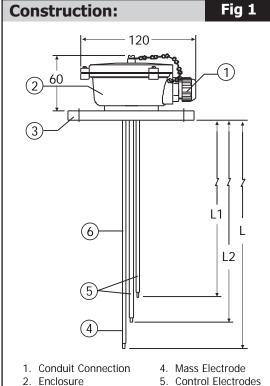
Service:

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

Applications:

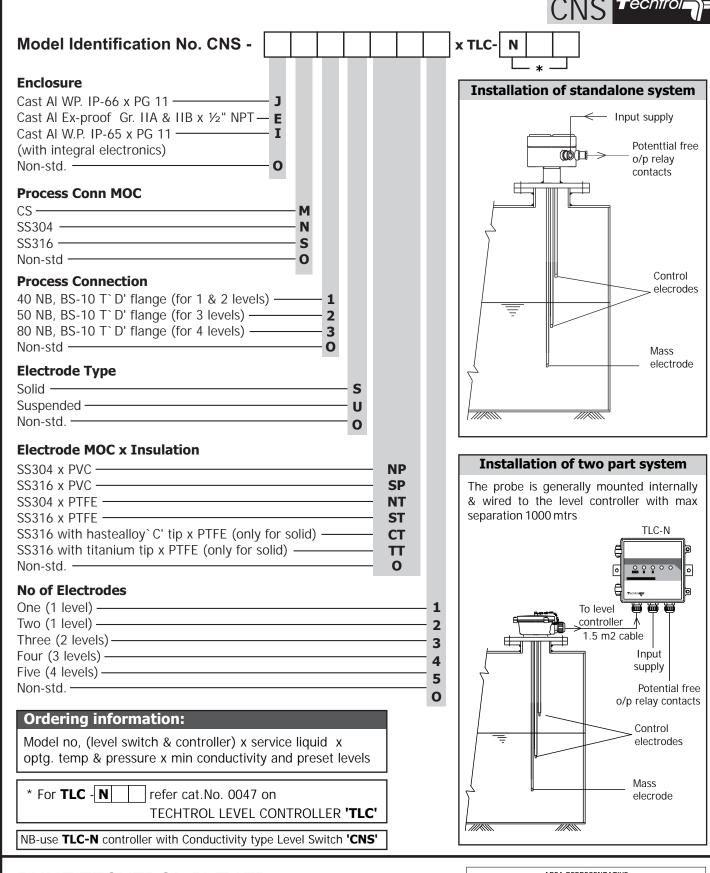
Sump, Pump, Reservior level control, Cooling towers, Water, Waste water & Sewage treatment plants.





- 3. Process Connection
- 6. Insulation

L2= LEVEL TWO / L1= LEVEL ONE



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