



CONDUCTIVITY LEVEL SENSOR (JAYCEE AQUA 4000 SERIES)

PRINCIPAL

A low voltage is applied between the probe electrode and the tank wall (or reference electrode in case of insulated tank). When the liquid comes in contact with the electrode tip, a conductive path is established between the sense electrode and the tank wall / reference electrode. This current is sensed, amplified and made to operate a relay whose contact in turn can be used for annunciation/control.

Features

- Two Point action for automatic pump control.
- Two Point independent switching.
- Three Point switching , two points with pump control logic and one independent point.
- Four Point switching having two- pump control logic.
- Variety of probes available for various process condition.
- Multichannel – 4 Point independent switching available for various process condition.

Applications

JAYCEE AQUA 4000 level switches are used in processing plants for conductive liquids of conductivity not less than 1 micro siemens in, DM/ RO Water, Food, Power, Chemicals, Sugar, Detergents, Steel, Minerals, Textiles, WTP and ETP etc.

Parts

The parts of Conductivity Level Sensor are explained in figure 1. All dimensions are in millimeters.

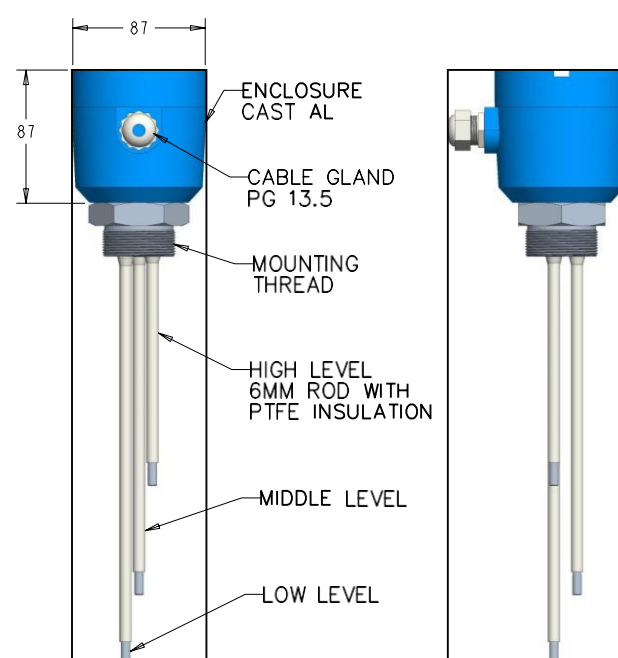


Figure 1 : Conductivity Level Sensor

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Technical Specification

SWITCHING UNIT	: Micro controller Based.
Housing	: DIN RAIL, suitable for back panel mounting
Mains Voltage	: 65-265 V AC, 50Hz/18-36 V DC
Output	: 1 sets of potential free c/o contacts rated at 5 amps
Ambient temperature	: 0 ° C ... + 60 ° C
Power consumption	: 2.5 VA
Safety operation	: Field selected switch over for minimum or maximum (FSL/FSH) switching points.
Switch status display	: LED L1 to L4 for four points of level Alarm and L5 for power ON/ timer.
Mounting	: Screwed –1/2" BSP (standard) Above 1/2" BSP and flanged mounting (As per application and requirement)
Sensing Probe	: Stainless steel 304/ 316 rod / rope type
Insulation	: PTFE (standard) Other insulation on request and as per application. Operating temperature : 200 ° C max. (Inside vessel)

Model Selection

