



CONDUCTIVITY LEVEL SENSOR (JAYCEE AQUA 4000 SERIES)

PRINCIPAL

A low AC 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 25 micro siemens in 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.

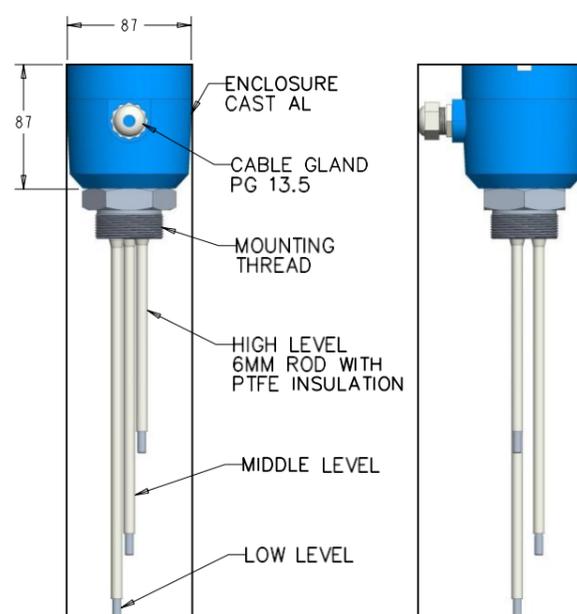


Figure 1 : Conductivity Level Sensor

JAYCEE TECHNOLOGIES PVT. LTD.

An ISO 9001-2008 C E Certified Company

Shed No. 7, Nanekar Industries Building, Survey No. 79/2,

Dangat Industrial Estate, Shivane, Pune - 411 023, India

Contact No. : 07447401743

Email : jayceetech@gmail.com

Website : WWW.jayceetech.com



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

