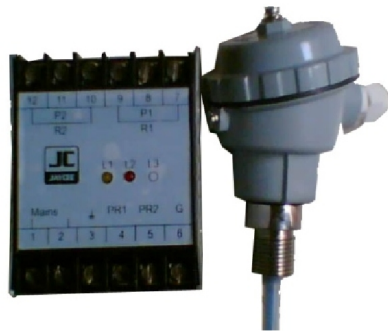


CONDUCTIVITY POINT LEVEL SWITCH/S
JAYCEEQUA – 4000



DIN RAIL CONTROLLER



PROBE

PRIMARY AREA OF APPLICATION:

JAYCEEQUA 5000 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.

Usage

Switching 'OFF' pumps when tank is full, to avoid overflow For maintaining a constant level to avoid material wastage

For switching 'OFF' pumps before running dry and indicating an empty tank to avoid wear and tear & production stoppage

MEASURING SYSTEM

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

SALIENT FEATURES

- No moving part, free from maintenance.
- No special cable required for signal transmission, ECONOMICAL to install.
- Long cable connection permissible between probe and evaluation unit.
- AC on probes for prevention of electrolytic deterioration of electrodes.
- Low voltage on probe for operational safety.
- Variety of control functions and installation system available, beside single point switching.
 - 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 conditions.
 - Multichannel -4 point independent switching available for various process conditions.

TECHNICAL SPECIFICATIONS (STANDARD):
SWITCHING UNIT:

Housing : Aluminum, weather proof, powder coated. for back panel mounting /DIN Rail mounting

Cable entry : 3 nos.

Ambient temperature : 0 ° C to +60° C

Power consumption : 1.9 VA

Mains Voltage : 230/110 V AC (+/-15%),
50 Hz or 24 V DC (ON REQUEST)

Output : 1 sets of potential free c/o contacts rated at 10 amps, 250 V AC for non-inductive loads.

Safety operation : Field selected switch over for min. or max. (FSL/FSH) switching points.

Switch status display : Green LED shows Normal, Red LED shows alarm.

Response Time : 0.5 Sec

Weight : 1.5 Kg Cast Al.



PROBE:

Housing : Cast Aluminium.

Mounting : Screwed – 1/2" BSP (standard)
Or Flanged (optional)

Sense Rod/s : Stainless steel

Insulation : PTFE (standard) Other on request
and as per application.

Operating Temp: 200 deg max in vessel

Voltage on the probe: 12 V AC max. (Across probe & tank wall)

Current : < 3 mA (between probe & tank wall through liquid)

Continuous efforts for product development may necessitate changes in specifications without notice

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