

Liquid Level Controller

- Fully Automatic operation enabling both draining and filling simultaneously with a single device
- Adjustable sensitivity level from 1k to 200k Ohm
- Includes provision for Manual start
- Protects submersible pumps against dry running and prevents overflowing
- Enables maximum utilization of incoming liquid (eg. water) supply
- Specially designed corrosion and shock resistant sensors to ensure trouble free operation.



Ordering Information

Cat. No.	Description
4411AD1	110VAC, 1 C/O, 1K to 200K Sensitivity, Draining & Filling
4421AD1	240VAC, 1 C/O, 1K to 200K Sensitivity, Draining & Filling
4431AD1	400VAC, 1 C/O, 1K to 200K Sensitivity, Draining & Filling
44S0003	Accessories, Set of 3 Stainless Steel Sensors
44S0006	Accessories, Set of 6 Stainless Steel Sensors

Note: Sensors for High Temperature (Up to 165 C) applications are available on request.

Liquid Level Controller



Cat. No.	4411AD1	4421AD1	4431AD1
Parameters			
Supply Voltage (±)	110VAC, +/-20%	240VAC, +/-20%	415VAC, +/-20%
Frequency	47Hz - 63Hz		
Power Consumption (Max.)	3VA		
Device Characteristics			
Conductive Sensor Probes	Stainless Steel SS304, 3 or 6 Nos		
Sensor Length	10 cm		
Control Action Modes	Only Draining, Only Filling, Draining & Filling Simultaneous (One Tank or Two tanks)		
Sensitivity	1K to 200 K Ohm (Potentiometer adjustable)		
Sensor Voltage & Current	12 Vp-p, 100 Hz, < 1 mA		
Sensor cable	Cable gauge (Min):0.5 sq mm Tin coated, Cable dia(Min):1.5mm Max Cable Length-1000m (For set value < 50%) Max Cable Length-300m (For set value 100%) Max capacitances of wire- 80 nF / km		
Settable ON & OFF Delay Time	0.5 sec to 10 sec		
Manual Start Switch	If Lower tank water level is greater than Low level & upper tank water level is below High level then by pressing a switch Relay can be switched ON manually.		
Output Control Mode	Relay ON/OFF		
Contact Ratings	1 C/O,8A@250VAC,Resistive,Terminal 15-Pole, Terminal 16-NC,Terminal 18-NO		
Utilization Category	AC-15: Rated Voltage (Ue):120/240V, Rated Current(Ie): 3.0/1.5A DC-13: Rated Voltage (Ue):24/125/250V, Rated Current(Ie): 2.0/0.22/0.1A		
Electrical Life	1 x 10 ⁵ Operations		
Mechanical Life	1 x 10 ⁷ Operations		
LED Indication	GREEN LED: Power ON, RED LED : Relay Output ON		
Operating Temperature	-10°C to +60°C		
Storage Temperature	-10°C to +70°C		
Relative Humidity	5 to 95 % RH (non condensing)		
Mounting	Base/DIN Rail		
Dimension (W x H x D) (in mm)	36 X 90 X 65		
Weight (unpacked)	235 g (Controller), 45 g (Sensor)		
Certification			

EMI/EMC

Harmonic Current Emission	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transient	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Environmental

Cold Heat	EC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27