

Model 2009 and 2209 Liquid Level Controller

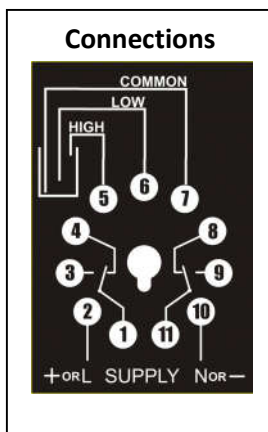
- Designed and manufactured in South Africa.
- 1 year warranty.
- Low cost.
- 11-pin plug in.
- Programmable relay action and response time.



The model 2009 liquid level controller works by sensing the conductivity of the liquid in which the probes have been inserted. Three electrodes are normally used, high, low, and common. The common electrode can be the tank if it is metal. The electrodes can be made of any electrically conductive material to suit the liquid, for example, graphite or stainless steel is usually preferred for water. It can also be used with float switches. A 9V DC signal is applied to the electrodes and is reversed at a very low frequency. This reduces electrolysis on the electrodes.

The high and low electrodes are mounted at the maximum and minimum levels required and the common electrode must be below the level of the low electrode. The electrodes can be mounted from the top or side of the tank provided they are insulated from each other. There are 6 DIP switches that can be used to change the relay

action, sensitivity and relay switching time delay. These are situated on the base of the unit. This aids in the prevention of tampering when the unit is mounted in the panel. Available with a SPDT relay (Model 2009) or DPDT relay (Model 2209).



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SPECIFICATIONS

ELECTRODE VOLTAGE	9V $\pm$ 1V AC Square Wave approx. 5Hz / 450Hz
SENSITIVITY	NORMAL: 10K – 1M HIGH: 110K – 1M1 NORMAL FIXED: 10K HIGH FIXED: 110K
RESPONSE TIME	SLOW $\pm$ 5secs. NORMAL $\pm$ 1sec. FAST $\pm$ 0.1sec.
POWER SUPPLY Options	115V 50/60Hz. 230V 50/60Hz. 24V DC Isolated
POWER CONSUMPTION	AC supplies: 3VA approx. DC supplies: 3W approx.
TEMPERATURE LIMITS	-5/+60°C
HUMIDITY LIMITS	0-90% RH non condensing
RELAY RATING	10A 400VAC 2500VA 10A 30VDC