



### Description

AquaMetrix liquid level controllers have been found in the most mission critical environments, such as power plants, for decades.

Water Analytics revised the entire AM-LL series for even greater durability and combined the previous four models into two. All AM-LL series controllers are suitable for single level or differential level service. Single level service enables a high or low alarm. Differential level service provides a span between pump up and pump down levels, as set by the position of two electrodes.

All units are housed in a plastic enclosure, which plugs into a standard 12-pin relay socket. All pins and terminals are nickel-plated brass for durability. Controllers may be as far away as 600 m (2000 ft) from the electrodes.

While most controllers apply as much as 500 VDC across electrodes the AquaMetrix design limits the voltage to 16 VDC.

The controllers also limit the current across the electrodes if the latter are shorted.

#### MODEL AM-LL7H

This model features an auxiliary pair of normally open contacts for use with an annunciator or other device. The AM-LL7H is suitable for most industrial applications and hosts a field-adjustable sensitivity. It is especially suited for low conductivity liquids or foam.

#### MODEL AM-LL3

This model is the most versatile of the AM-LL series controllers. When wired for single level service, it uses two relays—one for the pump and the other an auxiliary device such as an annunciator. Each relay can be set for normally open or normally closed operation. An indicator LED enables very precise sensitivity adjustments.

### Features

- Ideal for applications where the controller is mounted remotely, up to 600 m from the electrodes
- Built-in sensitivity adjustment for foam or liquid applications
- Safe Low voltage at the electrodes
- Custom electrode length and material available
- Model AM-LL7H for use with low conductivity liquids

### Applications

- Waste water flow accumulation
- Water Treatment systems
- Irrigation
- Chemical Mixing
- Process cooling systems
- Neutralization Systems
- Process flow control
- Filtration systems

# Model AM-LL3 and AM-LL7H Liquid Level Controllers

## Specifications and Ordering Information

	Model AM-LL3	Model AM-LL7H
Power Supply	120 or 240 VAC depending on model	
Power Consumption	< 50 mA @ 120 VAC	< 25 mA @ 120 VAC
Standard Housing	Plug-In Encapsulated ABS Enclosure, 12-pin Relay Socket	
Enclosure Materials	Clear molded plastic UL 94 V-0	Black ABS NEMA 1
Base Material	Break resistant thermoplastic	
Pump Terminals	Normal Open and Normal Closed	
Max. Distance to Electrodes	600 m (2000 ft)	
Ratings		
Number of Relays	2 SPDT	1 SPDT and 1 AUX NO
Relay Ratings (resistive load)	Dry contact 10A @ 250 VAC	
Maximum Sensitivity	10 kΩ (fixed)	10 kΩ to 1 MΩ (adjustable)
Temperature	-40 to 80 °C (-104 to 176 °F)	-18 to 55 °C (0 to 131 °F)
Physical		
Mounting Options	Wall Mounted Base	
Dimensions	Case: 3.4 x 2.6 x 1.5 inches Base: 2.7 x 2.2 x 0.90 inches	Case: 4.6 x 3.1 x 1.8 inches Base: 2.7 x 2.2 x 0.90 inches
Weight	< 1 lb.	

## Dimensions

