

# Yamada Accessories

## LLC-2 liquid Level Controller

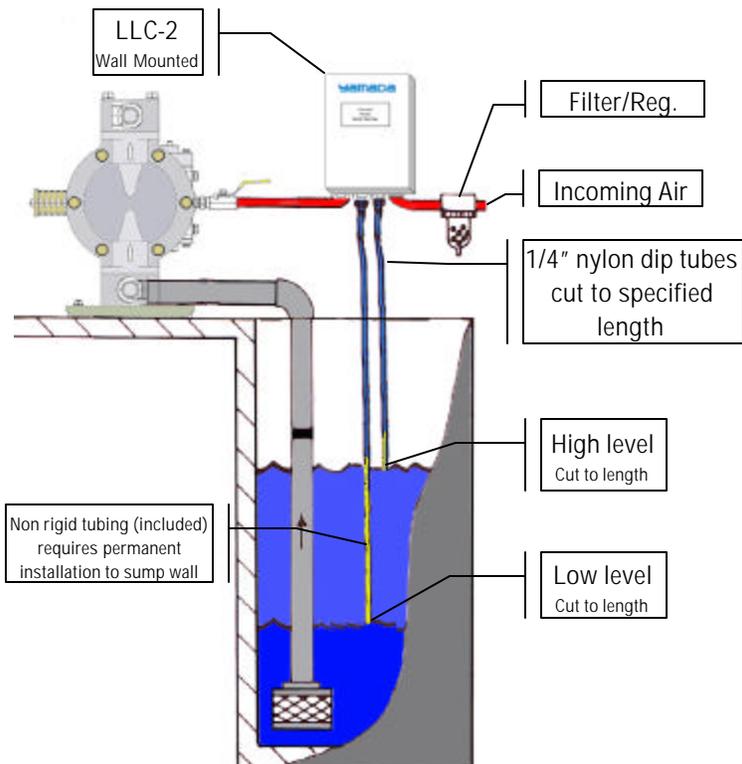


The Yamada LLC-2 Liquid Level Controller is a totally pneumatic system designed to automatically start and stop Yamada Air-Operated Double Diaphragm Pumps when the liquid level within a tank, sump, etc. reach predetermined levels.

An extremely versatile controller, the LLC-2 can be used in both single and dual pump applications with any size or model Yamada Pump. Used in a single pump configuration, it automatically controls either the filling or emptying of a tank or other vessel. Connecting to two separate pumps, it controls both the filling and emptying of the tank. This dual pump capability is particularly useful for waste water storage, contaminated water clean up and other applications where liquids are regularly transferred into and out of a single vessel.

### Key Advantages:

- **Totally Pneumatic Operation:** Compressed air to operate the pump is all that is required.
- **Broad Control Capabilities:** The LLC-2 can be utilized with any Yamada Pump to control and maintain a liquid level anywhere from a few inches to dozens of feet within a tank, sump, etc.
- **Wide Range of Applications:** The LLC-2 can be utilized in either single or dual control applications. Connected to a single pump, it is ideal for either filling or emptying a tank or vessel. Connected to two pumps, it can be utilized to control both the filling and emptying.
- **Easy Installation:** Designed for convenient wall mounting, the LLC-2 requires only four connections:
  - Air supply IN
  - Control air supply OUT (to pump)
  - High level dip tube (mount 2" to 3" below predetermined level)
  - Low level dip tube (mount 2" to 3" below predetermined level)



Industry flows  
through **Yamada** pumps  
CALL TOLL FREE 1.800.990.7867

Yamada America, Inc  
1200 Nuclear Drive  
West Chicago, IL 60185  
Phone: 630.231.4083  
Fax: 630.231.7405  
www.yamadapump.com  
sales@yamadapump.com

# Principal of Operation

The LLC-2 consists of a sophisticated air logic control valve housed in an impact resistant fiberglass reinforced plastic enclosure. As the liquid level within the tank rises or falls, the subtle changes in pressure are transmitted through high and low level dip tubes to the air logic control valve. When the liquid level reaches a predetermined level (tubing is cut in the field to the preferred HIGH and LOW level points), the power valve supplying air pressure to the pump is turned ON or OFF as required.

The LLC-2 can be utilized to control and maintain liquid levels in virtually any un-pressurized vessel. Its liquid level control span ranges from a few inches to dozens of feet. For added convenience, it may be mounted up to 20 feet away from the pump.\*

\*NOTE: The greater the distance from the liquid, the longer the reaction time for the pump to activate.

| Liquid Level                            | Single Pump Configuration |          | Dual Pump Configuration            |
|---|---------------------------|----------|------------------------------------|
|   | Emptying                  | Filling  |                                    |
| Below both High and Low dip tubes       | Pump off                  | Pump on  | Filling pump on, emptying pump off |
| Below High dip tube, above low dip tube | Pump off                  | Pump on  | Filling pump on, emptying pump off |
| Above both High and Low dip tubes       | Pump on                   | Pump off | Filling pump off, emptying pump on |
| Below High dip tube, above low dip tube | Pump on                   | Pump off | Filling pump off, emptying pump on |
| Below both High and Low dip tubes       | Pump off                  | Pump on  | Filling pump on, emptying pump off |

|                                   |  |
|-----------------------------------|--|
| Dimensions                        | 8.5 x 7.0 x 4.5 inches (LxWxD)                     |
| High/Low Dip Tubes:               | Two 1/4" nylon tubes, cut to length (20' supplied) |
| Compressed Air Supply Connections | 3/8 inch   |



Your local distributor:

Form #L20402