



**FEMACK**  
**LIQUID LEVEL CONTROL SYSTEMS**  
**LEVEL INDICATORS - ALARMS -**  
**AUTOMATIC CONTROLLERS**

It is our pleasure to introduce **Active Controls** *Liquid Level Management Systems*. For your basic liquid management in Water, Sewage and Kitchen waste water, Oils like HSD & LDO, DM & DI water, sump pumps, other applications, need accurate automation of controls and warning alarms, *with adequate information of level of liquid in tanks*, you will find **Active Controls** Systems extremely useful.

**ABOUT US**

We at **Active Controls**, are manufacturing Liquid Level Controls since 1993 The company is headed by Major RK Mehdiratta, MIE, an ex-Army Engineer officer. We are organized to provide tailor made solutions to all your Water and Wastewater management requirements. It is the basic policy of our company to offer systems that are *User Friendly, Simple, Operationally dependable, Cost effective, and above all - Maintenance Free.*

**ABOUT THE SYSTEMS**

Active Control Systems are used to monitor liquid levels by magnetic level sensing, and provide at a remote location

1. LEVEL INDICATION
2. LEVEL WARNING ALARMS
3. AUTOMATIC CONTROL OF PUMPS/ VALVES AS THE CASE MAY BE.

**THE PRODUCT**

The systems mainly comprise three components.....A Probe unit, an Actuating Float, and a Control Panel.

**Probe:** Made from sealed stainless steel tube, in which magnetic level sensors are enclosed. The unit is TOP MOUNTED on the tank. Since the sensors are not in direct contact with the liquid, and are magnetically operated, there is no corrosion/ damage to the sensors, ensuring unlimited life.

**Actuating Float :** Mounted on the probe and floats on liquid surface. This is made either from SS 316 or PP. The float, in it's vertical movement, operates the magnetic sensors as it reached their level. The sensors send signal to the control panel, which gives outputs of Level Indication, Alarm and Control.

**Control Panel :** Mounted at any suitable location - converts the signal into specific output of Audio/Visual level indication, Level Alarm and Automatic Pump Control.

**ACTIVE COMPARED WITH OTHER SYSTEMS**

FEATURE	MAGNETIC (ACTIVE CONTROLS)	DISPLACEMENT	CONDUCTIVITY
Effect of Liquid Corrosion	No effect	Not Vulnerable	Most serious problem
Application	Most liquids like Water, Wastewater, oils, effluent, Chems	Most liquids, but hi customization depending on liquid sp.gr	Only in conducting liquids like water
Simplicity of Usage	Very Simple and accurate	Needs supervsiion and qualified staff.	Primitive systems-arbitrary performance
Cost	Very affordable	Expensive	Cheap in every sense
Life of the System	+ 8 year	5-7 years	3 months to 1 year

**1800 Giani Market, (Op D 57 South Ext-1), New Delhi - 110003:**  
**Tel (91 11) 51646101, 51646102 Fax 51646102, Mobile: 9810313708**  
**On the web [www.indiamart.com/activecontrols](http://www.indiamart.com/activecontrols) email: [activecontrols@rediffmail.com](mailto:activecontrols@rediffmail.com)**

FEATURE	MAGNETIC (ACTIVE CONTROLS)	DISPLACEMENT	CONDUCTIVITY
Reliability	Very High	High	Extremely Low
Accuracy	High	High	Low
Installation	At any stage	Only at manufacturing stage	Easy- just insert wires in the tank- and pray
Maintenance	No Maintenance	Low	Daily
Users	Where high reliability combined with multiple features and economical application is required e.g. Hotels, Public utilities, industrial applications in water, waste water, oils, lubricants, STPs and ETPs, other liquids	Where Extremely accurate gauging is necessary	Low cost convinience of Automation, wherte failure is of little consequence.

## OUR CLIENTS

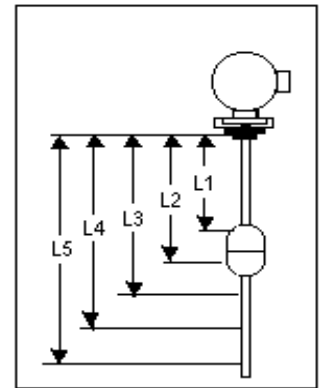
List of clients reads like the who's who of Delhi. These include 5 star hotels, top industries, Corporate Houses, Government departments, Builders, and hudreds of house owners, who find it prudent to depend on a good quality automation system, instead of the unreliable manual option.

To get a list of our clients, please email us at [activecontrols@rediffmail.com](mailto:activecontrols@rediffmail.com) or call us at 011 51646101

You too can use **Active Controls** Control Systems to suit your requirements. To get an offer form us, please let us have a schematic layout with the following information

1. Layout and location of tanks containing the liquid.
2. Type and material of each tank with DEPTH, and position of Inlets and Outlets as measured from the TOP of the tank.
3. Pumps Used.... Types, Capacity, Number, Location and sequence of operation , if any. In case of a Main and a Standby pump please indicate accordingly.
4. Valves, if any to be operated, in the process.
5. Liquid for which the system is required.
6. Working temperature, sp. gr. pressure where the level monitoring is to be done.
7. Points (Levels) at which controls are required; please specify your requirement.
8. Stages (Steps) of Level Indication ..... Normally 5 or 10

Please let us have the maximum information that you feel, will help us in giving you a fully customized and appropriate solution to your needs.



With Best regards

Yours faithfully,

*P.S. For your immediate requirements & queries please contact the undersigned at 09899379966 (Delhi cell)*

Ravi Medirata



# ACTIVE

## FLIC 500 Liquid Level Control System

### MULTIPLE LEVEL INDICATORS, CONTROLLERS & SWITCHES

*Compact - Simple - Reliable - Affordable - Total Liquid Control*

### ***Ideal Level Management System For***

- ☆ **Industrial Waters - DM, DI, Water Treatment Plants, Utilities**
- ☆ **Oils - Fuel, Lubricating, Edible, Cosmetic**
- ☆ **Effluent, Waste Water, Sewage Treatment Plants**
- ☆ **Dyes and Chemicals**
- ☆ **Breweries, Distilleries**
- ☆ **Pharmaceutical and Cosmetics Industry**
- ☆ **Sugar, Solvent Extraction, Food Processing, Dairy**
- ☆ **Any Pump - Any Tank - Any Liquid - Anywhere**



## APPLICATION

The **ACTIVE** Liquid Level Control System FLIC 500 is used for monitoring of liquid levels in tanks, such as underground tanks, overhead tanks, reservoirs, silos, dams, and in process control monitoring etc., and gives requisite **level indication, at a remote location on a panel**. The indication is visual, with audio warning alarm at desired levels.

The liquid may be acidic, alkaline, oil, water, effluent waste water, or petroleum based. It may be moving, turbulent or static. The indication system is well suited for any size or depth of tank, and can give resolution in desired number of steps. The system is extremely useful in monitoring liquid levels. It can be used in any location and is safety designed.

For Automation, FLIC V1 or FLIC V2 can be incorporated to automatically operate a pump or valve of any rating at any specified level. The systems are very versatile and a number of variations like control of multiple tanks, or multiple pumps are possible. Customized solutions are provided

## OPERATION

The operation is based on magnetic sensing of levels. It operates on the principle of a guided 'Float' riding on a Stainless Steel Probe Unit. The probe unit has a number of sensors enclosed inside and sealed. Vertical movement of the float actuate the sensors magnetically. The signal from the sensors is received by the Display cum Control panel (which can be place at a remote location). This unit indicates Liquid levels in stages and provides necessary outputs of alarms and automatic control at the desired levels.

## ADVANTAGES

Since the sensors are not in contact with the liquid, and operate magnetically .....

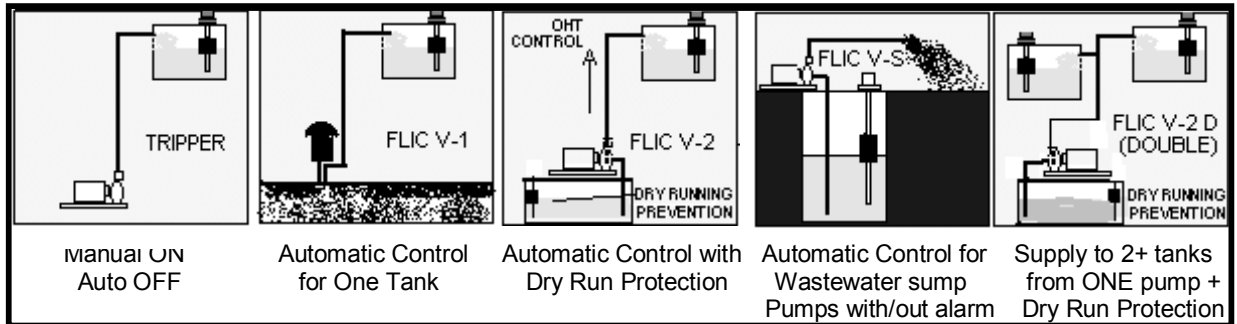
1. **The systems are Maintenance Free**
2. **These are not affected or corroded due to liquid characteristic properties.**

## SPECIAL APPLICATIONS

Custom designed systems are provided for WP/FLP/Pressurized and Hot water applications.  
Centralized control system for a network of pumps, tanks and movement of liquid in any process.

## APPLICATIONS

### For Control Systems



### For Level Indication and Alarm

Level indication and Alarm can be provided in any of the above applications.

#### SPECIFICATIONS

Power Supply input 220 V AC  
Internal Voltage 12 V DC  
Sensing System Magnetic Level Sensing

#### OUTPUTS

Display L.E.D.s in multi-level indication  
(Standard unit has 5 levels of 20% each)

Alarm Audio with acknowledge facility

Display Unit Percentage/ meters/ cm as desired

Resolution Minimum 60 mm

Signaling Distance Upto 300 meters (Please specify)

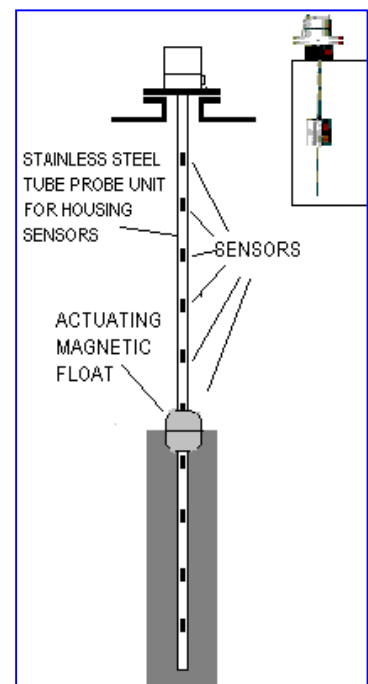
Power Consumption 0.25 watts

Depth of Tank Normally up to 6 m (For more specify)

Types of Liquids Most liquids with sp. gr. up to 1.2, temp 120°C

Mounting Flange ASA 150, Mounting Bracket as required

Material Panel MS\*/ SS  
Probe SS 304/ 316  
CPVC \* For domestic applications  
Actuating Float Polypropylene ( Domestic + plain Water)  
SS For Industrial / Heavy Duty applications



*Manufactured by*

**ACTIVE CONTROLS**

1800 Giani Market (2<sup>nd</sup> Floor)  
(Opp D 57 South Extension Part 1)  
New Delhi – 110003, India

Email: [activecontrols@rediffmail.com](mailto:activecontrols@rediffmail.com)

Tel : + 91 11 51646101, 51646102

Fax: + 91 11 51646102

[www.indiamart.com/activecontrols](http://www.indiamart.com/activecontrols)

*Your Representative*