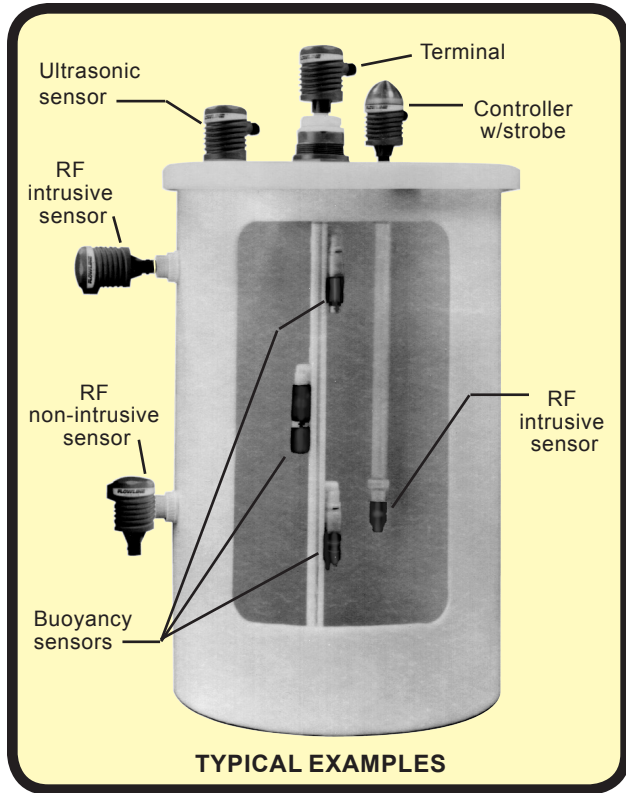




FIRST ALL- PLASTIC LEVEL CONTROL SYSTEM DESIGNED FOR PLASTIC AND FIBERGLASS TANKS



ACIDS / ALKALIES
SOLVENTS / FOOD PRODUCTS
OILS / WASTE STREAMS
PLATING SOLUTIONS / PAINTS
WATER / D.I. WATER
PHOTOGRAPHIC SOLUTIONS

This system allows you to solve industrial liquid level problems with a value added all-plastic system. Select a reliable industrial all-plastic level sensor in four technologies, a controller or output option and a mounting system. These point level switches will offer high and low alarms, automatic pump up or pump down (automatic empty or fill operations) and leak detection.

- | **Replace unreliable level sensors**
- | **Eliminate corrosion problems**
- | **Protect pumps and other equipment**
- | **Prevent operator errors**
- | **Improve process quality with more monitoring**
- | **Detect leaks and piping failures immediately**
- | **Reduce installation and maintenance costs**

Build a system in 3 easy steps

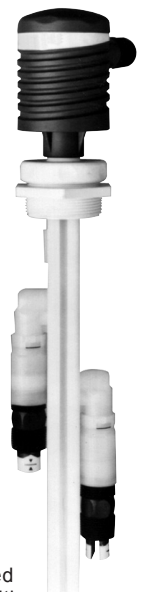
1. Sensing technology: Select the appropriate level sensing technology from this unique family of four plastic liquid level sensors. All offer a liquid tight package in polypropylene or PVDF. Each sensor provides an output for a controller and each comes with 8 ft. of cable coated in the same material as the sensor.



2. Controller: Select the appropriate controller configuration (Ultrasonic, Buoyancy, Intrusive RF capacitance or Non-intrusive RF capacitance), rail or panel mounted. In selecting the controller, consider the specific control and installation requirements of the application, including the type and number of sensing points.

Note: Rail terminal head is required when panel mounted controller is selected.

3. Sensor configuration: Select the appropriate sensor mounting configuration: in-tank rail system mount, outside-tank mount or above solution mount. Consider the specific parameters of the application, including the number of sensors to be mounted and the total length of in-tank rail required.



Rail mounted controller with two sensors and 2" NPT adapter.



2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431

ULTRASONIC TRANSMITTER (LED DIGITAL DISPLAY)

for water-based, viscous, high purity or very hazardous liquids, process and storage tanks

Provides non-contact continuous level measurement. LED display indicates level in inch or centimeter values. Internal relay for alarm, auto fill / empty operation. SPDT relays rated for ½ hp. or 10 amp resistive at 230 VAC. Mounted above liquid tank cover, 2" NPT. Unit is constructed of polypropylene and PVDF. It can be used with 66-1416 controller if LED display is desired; otherwise controller is not required for operation.

PRICE CODE NO.

66-1415

VERTICAL BUOYANCY SENSOR

for any clean, non-coating, non-clogging liquid, high level alarms

Dynamically stabilized floats minimize surface chatter, increase reliability and accuracy. Shrouded body resists turbulence and process debris. Reed switch rated 15 VA @ 120 VAC. ¼" NPT. -40° to 194°F. For rail mounting only. Use with PLC or with a controller.

PP 66-1403

PVDF 66-1403K

RF CAPACITANCE SENSOR (INTRUSIVE)

for any water based liquids, waste sumps, caustic soda, D.I. water, process and storage tanks

High frequency circuit, factory calibrated for plastic ungrounded tanks with conductive and non-conductive liquids. Eliminates metal grounding straps and reference rods. Resists coating and works with a wide range of liquids. Mounts on rail or through tank wall. ¼" NPT. -40° to 194°F

PP 66-1405

PVDF 66-1405K

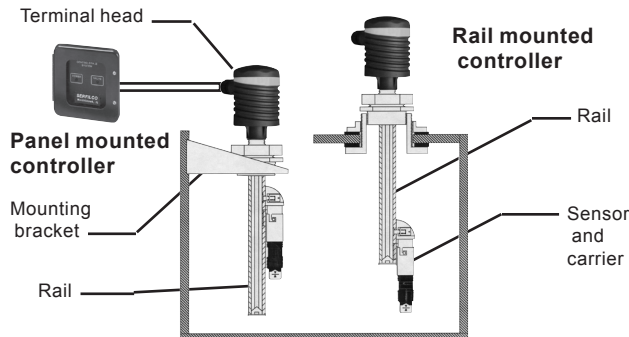
RF CAPACITANCE SENSOR (NON-INTRUSIVE)

for water-based, high purity or very hazardous liquids, process and storage tanks

Mounted on exterior wall of plastic or fiberglass tank, this unit senses liquid through 1" of non-metallic material. Patented two-point calibration ensures accuracy and easy installation. Includes polyethylene mounting pad for welding, adhesives, or glassing. NEMA 4X polysulfone housing.

66-1406

TYPICAL INSTALLATION



CONTROLLERS

These controllers feature SPDT relays rated for ½ hp. or 10 amp resistive at 230 VAC. Adjustable time delay from 0-60 seconds prevents frequent relay-cycling.

Choose single sensor controllers for single point/alarm applications. Two sensor controllers perform automatic fill/empty operations. Three sensor controllers perform automatic fill/empty operations and offer a separate relay for level alarm.

Panel mount controllers can be mounted up to 1000 ft. from sensor. LED's indicate wet/dry sensor condition and on/off relay status. Mount controllers on any 35mm DIN rail or screw directly to panel. Cord and plug not included.

Rail mount controllers have a ¾" NPT fitting that connects directly to the sensor's threaded end or to the mounting rail's end cap. Polypropylene NEMA 4X housing with ½" conduit fitting withstands industrial environments. The unit with strobe is a standard single point controller with a high intensity strobe light mounted on top to call immediate attention to alarm conditions.

PANEL MOUNTED CONTROLLERS

SENSORS	RELAYS	APPLICATION	PRICE CODE NO.
1	1	Single point, switch/alarm	66-1400
2	1	Two-point, auto fill/empty	66-1401
3	2	Three-point, auto fill/empty w/alarm	66-1402
3	2	Three-point, LED display*	66-1416

RAIL MOUNTED CONTROLLERS

1	1	Single point, switch/alarm	66-1410
1	1	Single point, switch/alarm w/strobe	66-1411
2	1	Two-point, auto fill/empty	66-1412

* Available w/ultrasonic transmitter only

IN-TANK MOUNTING RAIL

Make system setup easy with these rail kits and accessories. The rails allow you to position the sensor anywhere along the length of the rail. Slide sensors up or down to adjust level easily. To change sensor, simply snap sensor out of carrier and snap in a new sensor.

Rails come with adapters to fit 2" NPT tank openings. Or, mount rail on tank wall using optional mounting bracket. Cut rail sections to form shorter lengths.

DESCRIPTION	PRICE CODE NO.
2 ft. rail kit. Includes 2" NPT adapter and rail.	66-1407
4 ft. rail kit. Sensor carriers ordered separately, see below.	66-1408
6 ft. rail kit.	66-1409
Terminal head. Provides terminals for up to four sensors. Attaches to top of rail. For use with panel mount controllers.	66-1413
Mounting bracket. Use to install a rail to the top of the side wall of an open top tank. 2" NPT.	66-1414
Sensor carrier kit.	66-1417