

# How Does the FL-1000 Work?

The FL-1000 utilizes solid state sensor technology to sense the flow or movement of the water in the pipe it can also detect the temperature of the water in the pipe. The sensor technology is integrated with a microprocessor and a WIFI module. The FL-1000 has a built in WEB server that can be accessed, programmed, and configured using the free APP or the user interface. It is a proprietary patented solid state device that will sense temperature and water movement independently. The way the leak detection works is that it has a manual mode whereas you can verify that all the water is shut off in the house and push the test button. The auto mode runs an algorithm that looks at the time of day between 1 am and 4 am and also needs to see moving water for more than 10 minutes.

The FL-1000 free user interface allows the user to test for leaks at any time. Enter emails to forward leak detection and freeze warning alarms. The user can enter a temperature set point value to trigger an alarm or warning when the water temperature reaches the set point.

## [What is the MC Smart Controls FL-1000?](#)

The MC Smart Controls FL-1000 is a unique innovative smart technology that integrates the intelligence of home automation with the world of smart sensors.

## [What Makes the FL-1000 Unique??](#)

The FL-1000 is the only smart home cost effective technology for detecting leaks and protecting against frozen pipes in existence.

## [How Small of a Leak can the FL-1000 Detect?](#)

The FL-1000 can detect even tiny leaks. It will detect leaks in your home down to .2 gallons per minute. This is the equivalent of a faucet dripping

## [How does the FL-1000 communicate the alarms to the homemaker?](#)

The microprocessor technology and the WIFI connection allows the FL-1000 to send an email and or a text through the internet.

## [Can I use this system for my home water supply and my irrigation water supply?](#)

The FL-1000 comes in two versions. A version that connects directly to your home water supply and communicates to the home WIFI network directly and a smaller version that can interface directly into your smart irrigation controller.

## [Does the product support 110VAC 60 Hz and 220 Vac 50Hz ?](#)

Yes, the FL-1000 power pack supports both power sources.

## [Does the product fit in any pipe size application?](#)

Yes, the fitting that holds the sensor can be adapted to any pipe size or material.

### **What are the shipping costs?**

We can ship anywhere in the United States for a flat rate of \$12 with USPS. All countries outside of the US have different rates, but, most countries average about \$60 flat rate USPS.

### **Risks and Challenges**

Any time a new product is developed, there are risks and challenges in the process including development and manufacturing. We have a team with over 30 years of collective experience in the field of developing, manufacturing and the marketing of new technologies. Our background specialty is sensor, wireless, and controls technology. This is definitely not our first trip to the rodeo. We have developed and manufactured successful products in the water, wastewater, food processing and chemical industries. We have many long term partnerships with production and manufacturing companies in the US and abroad.