Instruction Assembly Manual
FL-1000
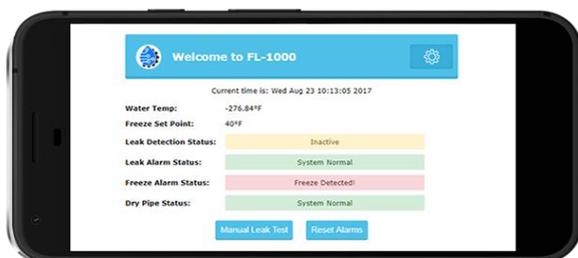
Table of Contents

**INSTALLATION**

SETUP

Installation

Location

➢ Select a location at least 6 inches or more after the main shutoff for the installation of the FL-1000 sensor. Make sure that the location you select in the main line after the shutoff valve is before the pipe branches off.

Mounting and Installation *(It is Strongly advised to contract a certified plumber)*

1. Shut off the main valve that feeds the water to the house. ***See diagram 1***
2. Cut a one inch piece out of the PEX water pipe. ***See diagram 2***
3. Slip the Shark Bite Model# U3370LFA push tee fitting on to one end of the cut water pipe(PEX, Copper, PVC) . ***See diagram 3***
4. Slip the other end of the water pipe on to the tee. ***See diagram 4***
5. Take out the FL-1000 leak detector for its package. ***See diagram 5***
6. Install the FL-1000 leak detector into the top of the tee.. ***See diagram 6***
7. Turn the main water valve back on and check for leaks.

Connect Line Power

➢ Let the water run for a few minutes. If there are no leaks plug the AC power supply into the wall outlet.

| Diagram 1 | Diagram 2 | Diagram 3 | Diagram 4 | Diagram 5 | Diagram 6 |
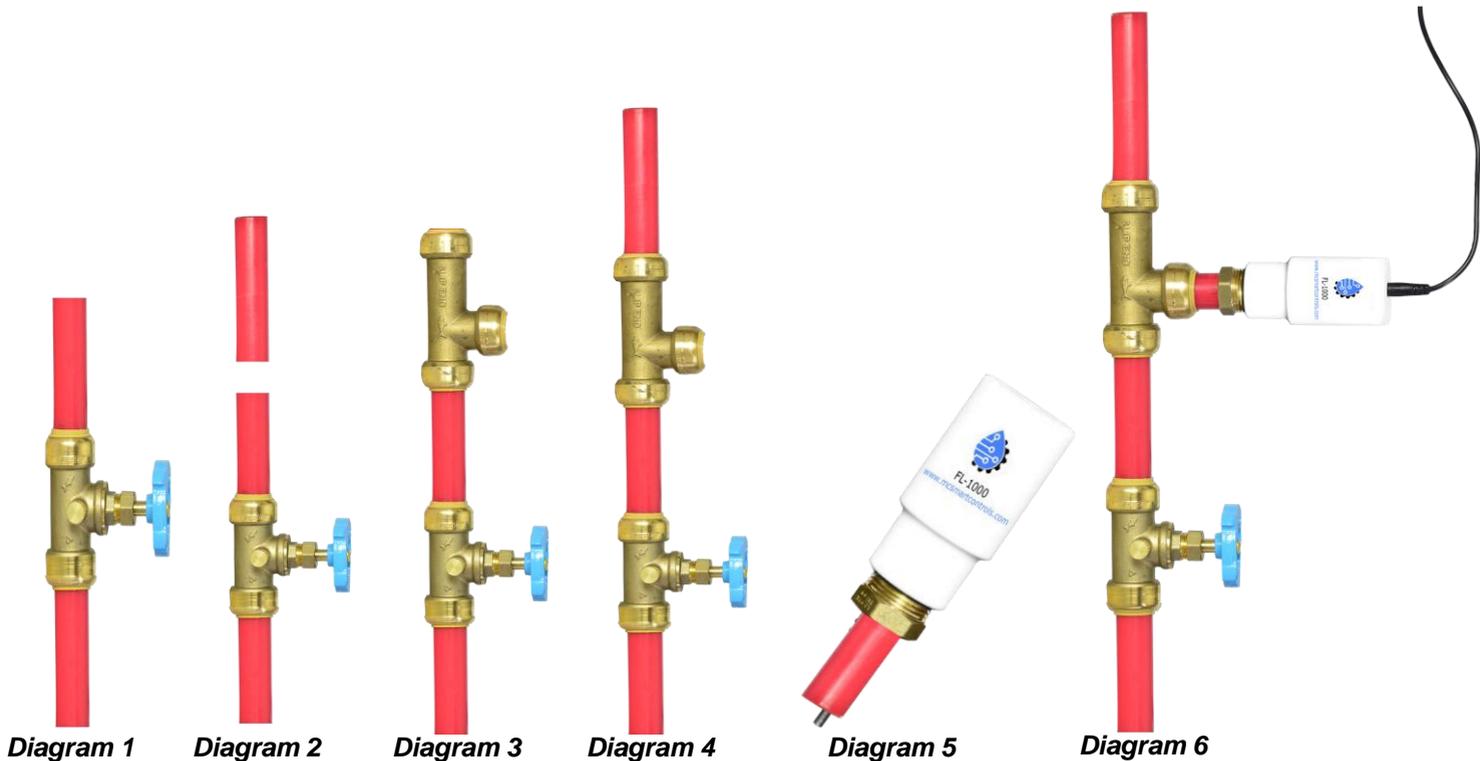
There are two ways to communicate with the FL-1000 over WIFI:

Option 1: Connect to the FL-1000 as a WIFI network

❑ **W**hile standing within 50 feet of the FL-1000 unit with a smart device. Look for local WIFI network named FL-1000_xxxxxx = the last four characters of the specific FL-1000's MAC address. Example: *FL-1000_030768. See Diagram 1 Below.*

❑ Select the FL-1000 network and enter the default password "FL-1000"This will connect you to the unit and allow you to configure or control the unit directly. The default IP for this network is "192.168.4.1."

❑ Once your are connected to the FL-1000 user interface you can choose to connect the device to your local WIFI network.

Option 2: Connect to Local WIFI Network:

❑ While connected to the FL-1000 via the on board WIFI network select the "Configure" tab located under the gear graphic. ⚙ This will take you to the set up page.

❑ In the "Wireless Setup" window check the "Connect to WIFI" box. Hit the "Scan" button and a list of all the local WIFI networks will appear.

❑ Select the network that you would like to join.

❑ Choose the security and enter the password. Hit "Save Network Configuration and Reboot" and the FL-1000 will connect to the network and a "Configuration Saved Successfully message will be displayed. *See Diagram 2.*

SSID	Channel	Security	Signal Strength
RainPal_5C9E	1	None	65
CenturyLink3469	11	WPA2	35
SKG-Guest	11	WPA2	25
SKG	11	WPA2	25
Trent's-Wi-Fi	11	WPA2	23
NSA_Snowden	11	WPA2	19
FL-1000_8315B0	11	None	16
Virus	1	WPA2	13
ISB	1	WPA2	11
CenturyLink1064	11	WPA2	9
Powerhouse	1	WPA2	8
DIRECT-54-HP OfficeJet Pro 8710	11	WPA2	8
Bailey	11	WPA2	7
Pentico	11	WPA2	5

[Refresh] [Close]

Diagram 1

Configuration Updated Succesfully

Basic Info

Name: FL-1000
Temperature Unit: Fahrenheit ▾
Freeze Set Point: 40

Leak Detection Interval 1

Wireless Setup

Connect to Wifi: ☑
[Scan]
SSID: CenturyLink3469
WPA2 Password: shivan1995
Use DHCP: ☐
IP Address: 192.168.0.133
Netmask: 255.255.255.0
Gateway: 192.168.0.1

[Save Network Config and Reboot]

Diagram 2

FL-1000 User Interface
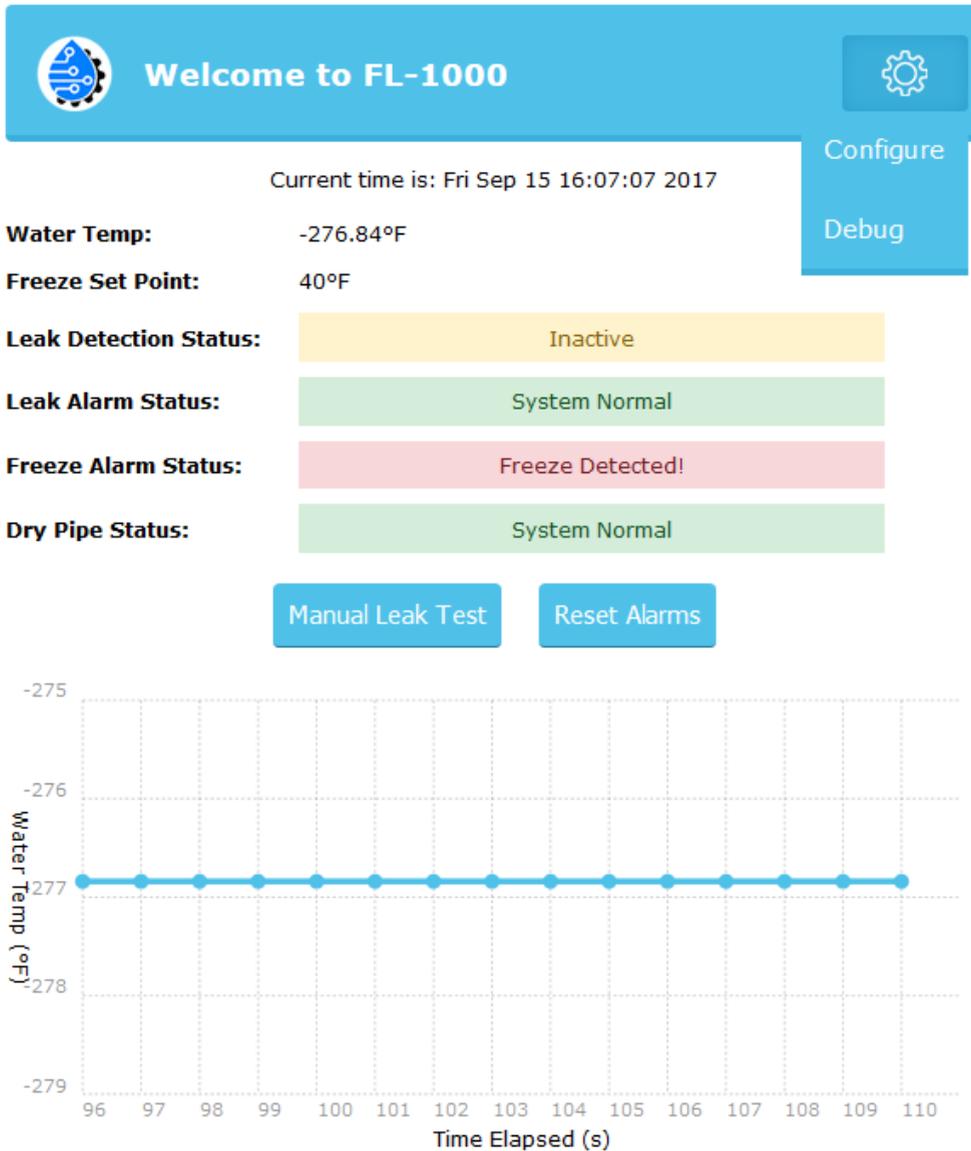
Configure Button- This button will bring you to the configuration page. See next page.
Freeze Set Point- The temperature that is set by user. When the water Temperature goes below this value an alarm is triggered and an email and or a text are sent.
Leak Detection Status- This acknowledges that the leak detection function is enable currently..
Leak Alarm Status- This is triggered when a leak is detected. An email and or a text are sent.
Freeze Alarm Status- This is triggered when the water temperature goes below the Freeze set point. An email and or a text are sent.
Dry Pipe Status-This is triggered when the pipe has no water in it.. An email and or a text are sent.
Manual Leak Test Button- Pressing the "Manual Leak Test" button will test for leaks manually within 10 seconds.
Start Time- This is the time window the user sets. This time window will be the time period in which the FL-1000 will test for leaks in auto mode. Three windows can be configured.

Communications Configuration Page

Welcome to FL-1000

Current time is: Fri Sep 15 16:30:49 2017

Basic Info

Name: FL-1000

Temperature Unit: Fahrenheit

Freeze Set Point: 40

Leak Detection Interval 1

Enable ☑

Start Time: 02 : 00

End Time: 04 : 00

Leak Detection Interval 2

Enable ☐

Leak Detection Interval 3

Enable ☐

Save Settings

Wireless Setup

Connect to Wifi: ☑

Scan

SSID: CenturyLink3469

WPA2 Password: shivan1995

Use DHCP: ☐

IP Address: 192.168.0.133

Netmask: 255.255.255.0

Gateway: 192.168.0.1

Save Network Config and Reboot

Basic Info-This menu is where you configure the name of your device, the temperature units, and the setpoint at which you would like the freeze alarm to trigger.

Leak Detection Interval 1,2,3-These windows are where you set up your time scheduling for the automatic leak detection. Three windows are available.

Wireless Setup- This menu is where you configure and connect to your home local WIFI network.

FL-1000 User APP
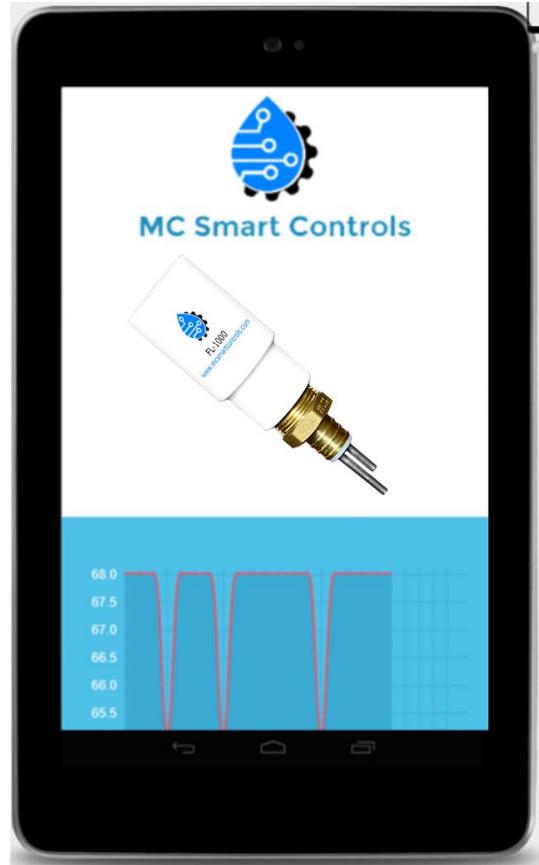
The APP can be downloaded for free at *www.FL-1000.com/??????* and used to Access the specific controller locally via the local FL-1000 user interface access point or globally over the internet.

1) FL-1000 Leak/Freeze Sensor

2) 24 VDC power Adapter

Troubleshooting

```
┌─────────────────┐
│ Can you see the │  No
│ FL-1000 network │ ──────────────►  ┌──────────────────────┐
│ on your smart   │                  │ The unit is defective.│
│ device          │                  └──────────────────────┘
└─────────────────┘
        │ Yes
        ▼
┌─────────────────┐
│ Can you connect │  No      ┌──────────────────┐        ┌────────────────────────────────┐
│ to the FL-1000  │ ──────►  │ Reboot the FL-1000│ ─────► │ If after rebooting the unit you │
│ network with    │ ◄─────   │                  │        │ still cannot see the FL-1000   │
│ your smart      │          └──────────────────┘        │ network or connect to it the   │
│ device          │                                      │ unit is defective.             │
└─────────────────┘                                      └────────────────────────────────┘
        │ Yes
        ▼
┌─────────────────┐
│ Try to connect  │  No      ┌─────────────────────────────────────┐
│ to the FL-1000  │ ──────►  │ If WIFI network does not show up in │
│ User Interface. │          │ Smart Device WIFI network list the  │
│ Can you bring up│          │ processor or firmware is corrupted  │
│ User Interface  │          │ or defective or the WIFI module is  │
│ in Browser      │          │ defective. Send controller back     │
└─────────────────┘          └─────────────────────────────────────┘
        │
        ▼
┌─────────────────┐
│ Everything is   │
│ working continue│
│ setup           │
└─────────────────┘
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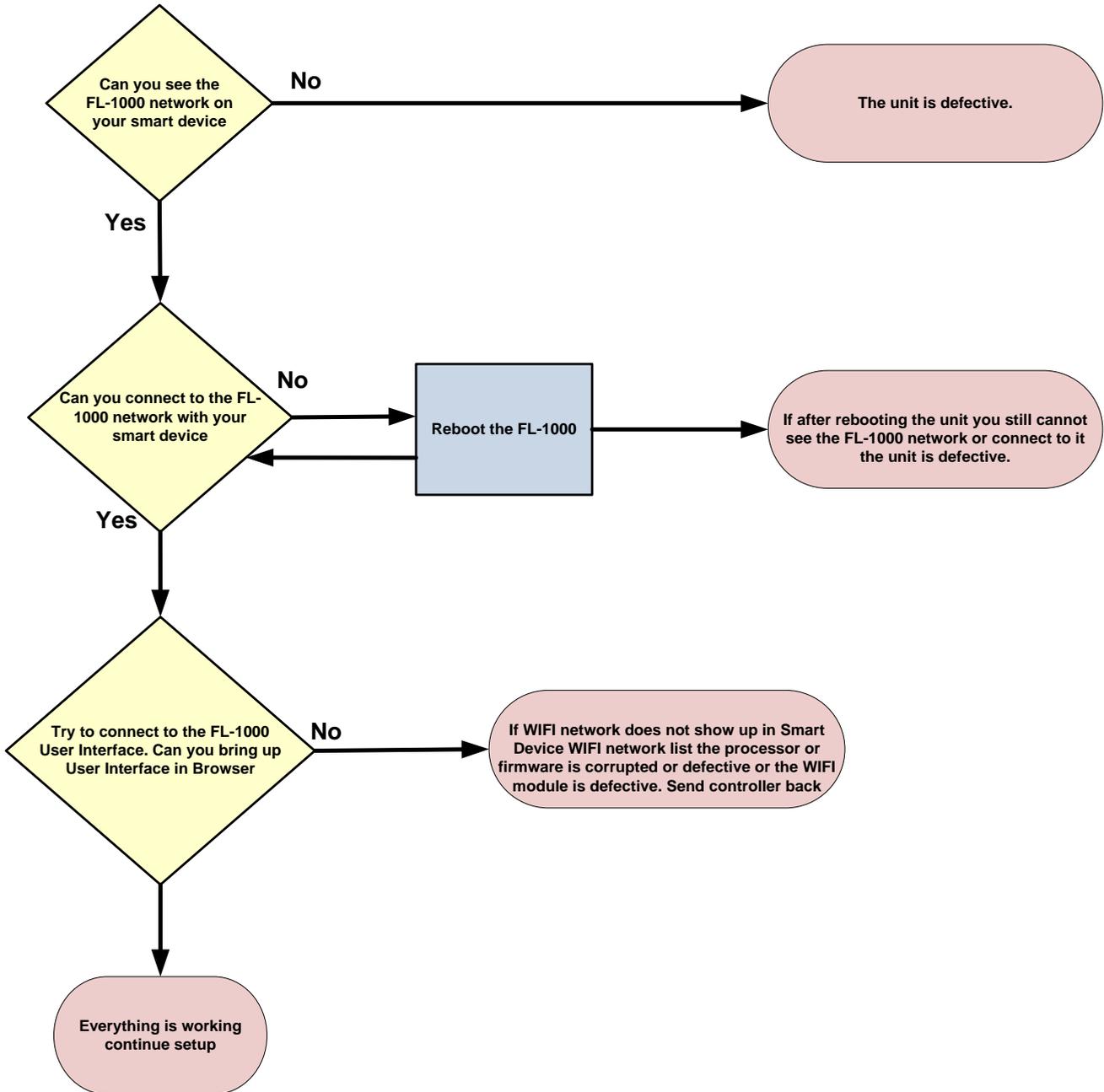
Warranty and Disclaimers

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