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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 (keep the piece you cut out). See diagram 2
3. Slip a crimp ring over both pieces of pipe. See diagram 2
4. Install the ¾ inch brass adapter (not included) between the two pieces of PEX pipe. See diagram 3
5. Crimp both crimp rings with the special crimping tool.
6. Take the one inch piece of PEX pipe that you cut out in step 2 and slip a crimp ring over one end then slip it over the top of the brass tee and crimp it on with the special crimp tool. See diagram 4
7. Put a crimp ring over the open end of the one inch PEX and then slip the brass end of the sensor into the open PEX. Crimp the crimp ring with the special crimp tool. See Diagram 5
8. 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](image1.png) ![Diagram 2](image2.png) ![Diagram 3](image3.png) ![Diagram 4](image4.png) ![Diagram 5](image5.png)
Communicating with the FL-1000

There are two ways to communicate with the FL-1000 over WIFI:

Option 1: Connect to the FL-1000 as a WIFI network
- While standing within 50 feet of the FL-1000 unit with a smart device. Look for local WIFI network named FL-1000_xxxxx = 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 you 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, go down to the communications tab at the bottom of the screen. This will take you to the communications set up page.
- Under the “Network Profile” scroll down menu select “Connect unit to internet via WIFI” Select the “Wifi Network 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 and the FL-1000 will connect to the network and it will show up with a check mark when it is connected. **See Diagram 2.**

![Diagram 1](image1)

![Diagram 2](image2)
Configure Button- This button will bring you to the communications 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 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.

Test Button- Pressing the “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.
Communications Configuration Page

**WiFi Station** - This menu is where you configure and connect to your home local WIFI network.

**WiFi Access Point** - This menu is where you configure your communication parameters for the FL-1000 WIFI network.
The APP can be downloaded for free and used to access the specific controller locally via the local FL-1000 user interface access point or globally over the internet.
Pre-Delivery/Install Checklist

1) FL-1000 Leak/Freeze Sensor

2) 24 VDC power Adapter
Can you see the FL-1000 network on your smart device?

- Yes
  - Can you connect to the FL-1000 network with your smart device?
    - Yes
      - Try to connect to the FL-1000 User Interface. Can you bring up User Interface in Browser?
        - Yes: Everything is working, continue setup.
        - No: If WIFI network does not show up in Smart Device WIFI network list, the processor or firmware is corrupted or defective or the WIFI module is defective. Send controller back.
    - No: Reboot the FL-1000.

- No: The unit is defective.
Warranty and Disclaimers

WARRANTY

Mani Group warrants that each product will be free of defects in material and workmanship for a period of three (3) years for its products. The warranty commences on the date the product is shipped by Mani Group. Mani Group’s sole liability and responsibility under this warranty is to repair or replace any product which is returned to it by the Buyer and which Mani Group determines does not conform to the warranty. Product returned to Mani Group for warranty service will be shipped to Mani Group at Buyer’s expense and will be reshipped to Buyer at Mani Groups expense. In no event, shall Mani Group be responsible under this warranty for any defect which is caused by negligence, misuse or mistreatment of a product or for any unit which has been altered or modified in any way. The warranty of replacement shall terminate with the three (3) years warranty of the product.

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