

Intelligent Leak Detection Solution Operation Guide

SENSOR
English Ver.

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- Product Spec**

1. 1 Product Operation Spec (Fixed)

LeakMaster Fixed	Communication mode	LTE
	Operating Temperature	-10°C ~ +75°C
	Charging Temperature	0°C ~ 45°C
	Battery	10,050mAh(Recharge)/ 5 years of use
	Sensor	Piezoelectric Sound Components
	Memory	4M-bit Serial Flash Memory
	Frequency	4KHz
	Standby Current	80uA
	Size	ø66mm x 106mm
	WEIGHT	607g

1. 2 PC Requirements

PC	CPU/memory	PC equipped with a CPU of 500M or more and 1G RAM or more
	Operating System	Windows 7 or more, Operating system supported by the browser Like Android, iPhone
	Browser	Google Chrome
	Resolution	1920*1024 Resolution Recommend

1. 3 Product Function(Role)

- ✓ Installed in the pipeline, it collects vibration signals from the relevant pipeline and transmits the data to the server

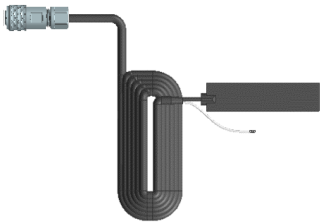


- **Components and Function**

2. 1 Components



Leak Detection
Sensor



Antenna

2. 2 **Component Features**

LeakMaster	Leak Detection Sensor	Measure Water Leak Sound, Detection Correlation Leak Sound
	Antenna	LTE Communication

• Operation

3. 1 Product Operation

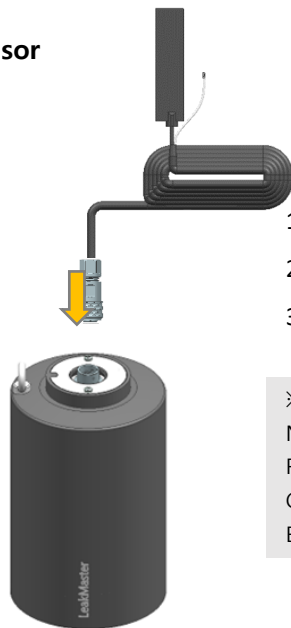
1. Connect the antenna to the leak sensor.
2. Verify that the Vibration is operating normally.
3. Go to Web(<http://global.thingsware.co.kr/>)
4. Verify that the data is collected normally.
5. Install the sensor.
6. (A charger is required for charging and is not included)



- ※ Caution: Please be careful when handling the leak sensor operation if the antenna cable is not installed correctly.
- ※ For web access, see the Operations Guide – leakmaster_app.

3. 2 Install product

1. Connect Sensor



Sensor

1. Connect the connector to the antenna at the top of the sensor.
2. Power is turned on immediately after antenna connection.
3. When connected normally, the Vibration motor operates.

※ buzzer sound

Normal connect : Zing-Zing-Zing

Register sensor information : Zing ~ Zing ~ Zing

Charging: Zing

Error: Zing Zing Zing Zing Zing Zing

2. Installing a Sensor

- ✓ sensors are installed in water pipes and accessories (fertilizers, fire hydrants, valves).
- ✓ The sensors can be mutually coupled, and It should be placed so that the location of the leak can be calculated through correlation analysis.
- ✓ When installing on a water supply pipe, the installation point is determined by analyzing the GIS (Geographic Information System) data of the area in advance.

• Product Manage

4. 1 Precautions

Precautions

- Follow the instructions in the user manual.
- Inadvertent use leads to malfunction or failure.
- Failure to follow the usage instructions or precautions may affect the safety of people and facilities.
- Use in an environment that meets the requirements.
- We do not take responsibility or warrant the consequences of your inadvertent use.
- There is a risk of injury due to the strong magnetic force of the magnets used in the product, so be careful with handling.
- If a strong impact is applied to the product, it can cause product deformation and breakage.
- If you are not using the product, detach it and put it in a case.
- If the antenna cable connector is damaged, be careful to handle it as it may cause problems with the waterproof function..
- If you have any questions about using the product or A/S service, please use the customer center.
- Risk of fire or explosion if the battery is disposal into fire or hot oven, mechanically crushing or cutting.
- Risk of explosion or the leakage of flammable liquid or gas
if the battery is leaving in an extremely high temperature surrounding environment.
- Risk of explosion or the leakage of flammable liquid or gas
if the battery is subjected to extremely low air pressure.

Customer Center (A/S)

All services related to LeakMaster are provided by SC Solutions Global Co., Ltd.

If you want to consult and after-sales service, please use the technical support below.

The maintenance and maintenance period of the LeakMaster product is indicated in the product contract

Technical support

Tel 031-893-8725, 031-893-8726 | Fax 031-893-8723 | E-mail scsol@scsol.co.kr

4. 2 FCC

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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Heungdeok IT Valley B1015 , 13, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

www.scsol.co.kr

SC Solution Global CO., Ltd