The User's Manual of the BT-058 Flow Meter

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1.0 General

The BT-058 Flow Meter is a flow meter with wireless transmission capability to transmit the flow meter information to the specific application software on smart phones. Based upon the different connection, there are five different flow sensors for the BT-058 Flow Meter.

2.0 Product Part Number & Product Dimension

Size	Part Number	Product Dimension
1/4"	BT-058L-30	
3/8"	BT-058L-22	

1/2"	BT-058L-44	
3/4"	BT-058L-66	
1"	BT-058L-88	

* All of the cables and electronic devices of the flow sensors are the same. The only difference is the mechanism in size and connection.

3.0 Installation

    3.1 Connecting the flow sensor

        Choose the right adapters to connect the flow sensor with the pipe or tube of the water filter system, water dispenser… The maximum water pressure for the flow sensors is 10 bar.

    3.2 Installing batteries

        Take over the battery room cover on the back of the control unit of the BT-058 Flow Meter. Install two AA alkaline batteries and put back the cover. The control unit will generate a long beep sound to indicate the batteries are well installed.

    3.3 Locating the Control Unit

        It is suggested to put the control unit of the BT-058 Flow Meter on the location where the smart phone could easily to connect by wireless communication. If it's installed under the water sink, It's better to use the bracket to stick on the door, and have the control units to be fitted into the bracket. For other place, it's better to not have anything shading the control unit.

4.0 Operating

    The capacity of the BT-058 Flow Meter is pre-programmed. The capacity is listed on the label of the back of the control unit. The blue light of the control unit blinks and capacity counts down when there is water flowing through the flow sensor of the BT-058 Flow Meter.

    The red light blinks and alarm generated if the remain capacity reaches to zero.

5 Resetting

    Keep pressing button for five seconds will reset the capacity from zero to the original set volume.

6.0 Low Battery Power Alert

    The yellow light blinks and alarm generated when the battery is low. The alert will be terminated when the batteries are replaced with new alkaline batteries.

7.0 Specification

    Wireless communication : Proprietary 2.4-GHz Systems in TX mode

    Operating voltage : 2.3 – 3 VDC

    Operating current : < 40 mA

    Operating temperature : - 20℃ - 50℃

    Operating water pressure : < 10 bar

    Accuracy : +/- 10%

    Connection : 1/4" – 1" (Please refer part number)

    Cable length : 150 cm

    Flow sensor installation : horizontal or vertical

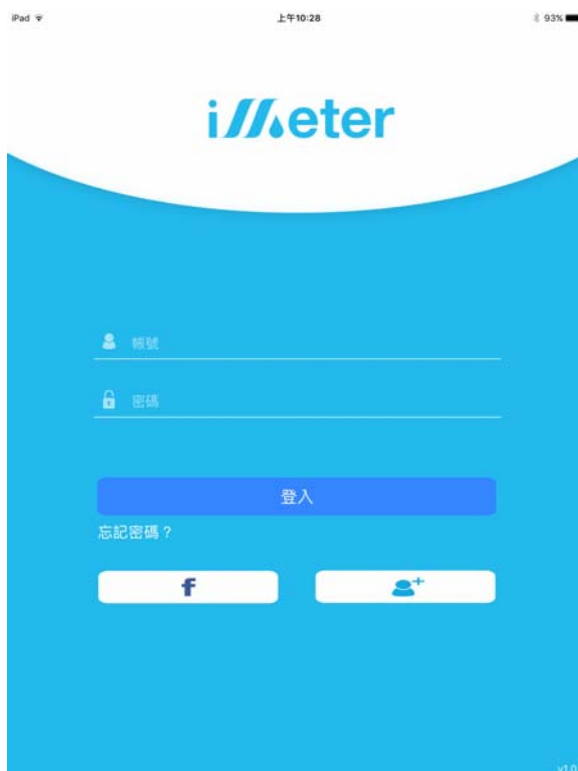7.0 Operating Guide for the iMeter APP on Smart Phones

7.1 Download iMeter APP from Apple Store or Android Play

    The iMeter APP is available in Apple Store and Android Play. They are free for download
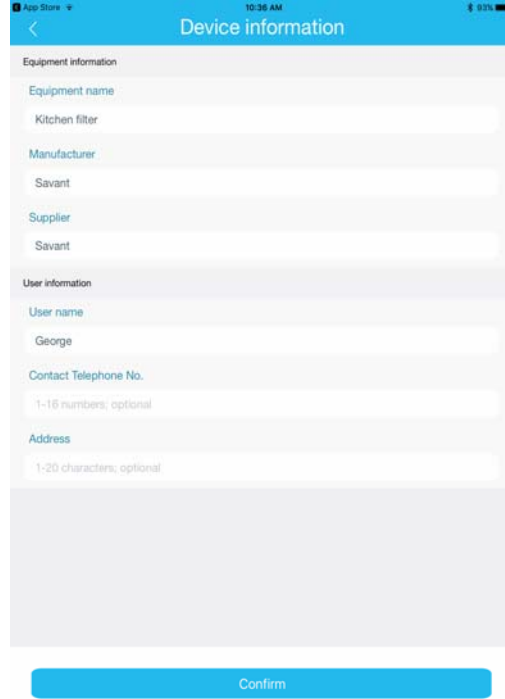

6.2 Registration

    The iMeter needs to be registered before it is operated. The Bluetooth connection of the iPhone/iPad or
Android smart phone needs to be turned on and connected with the Bluetooth flow meter when registering
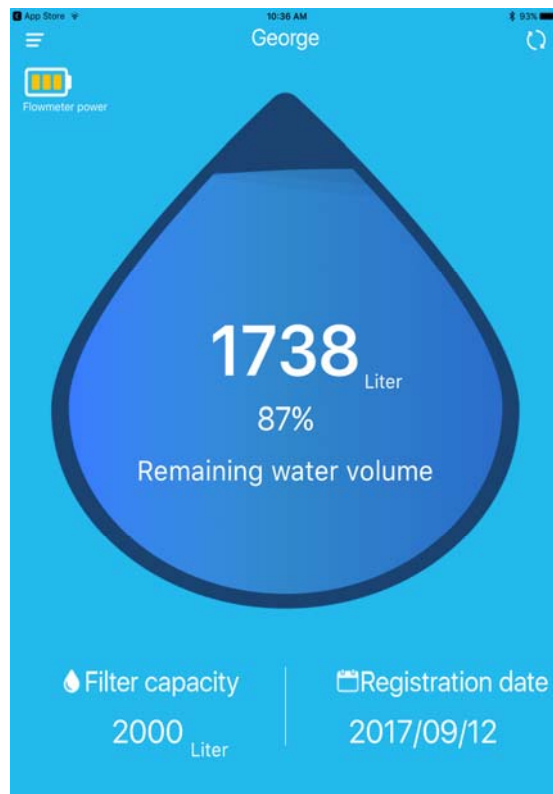an account top start using the iMeter APP.

6.3 Reading one or more BT-058 Flow Meters

Start using the iMeter APP. The iMeter APP will scan all of available BT-058 flow meters. Choose the one you want to read. For a new BT-058 flow meter, the iMeter APP will ask you to fill the information of the device, user and distributor information. The iMeter APP can read only one BT-058 flow meter each time. If you would like to read another BT-058 flow meter, you must logout and login again.
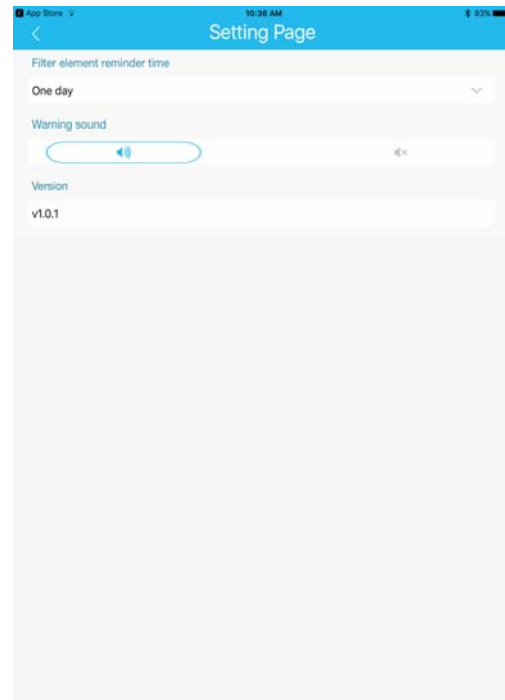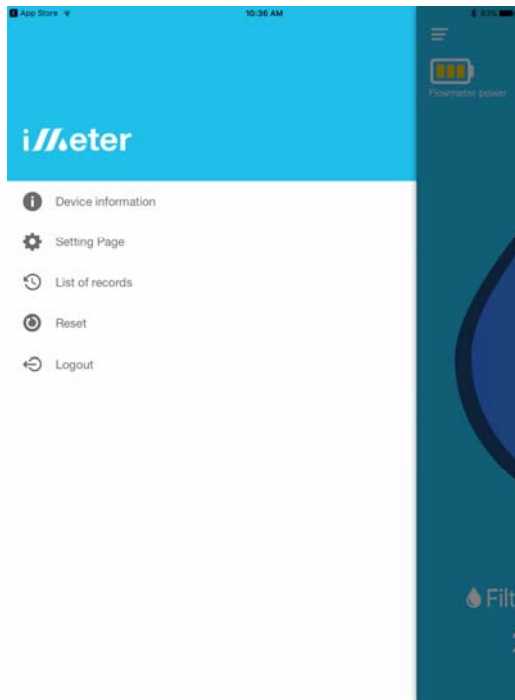

6.4 Reading the BT-058 Flow Meter

The iMeter reads the remain capacity and remain percentage.

6.5 Setting

Getting into the "Setting" of the manual bar of the iMeter APP could set the time period to alert you to check and update the filter capacity. You can also set the alert alarm to be off.
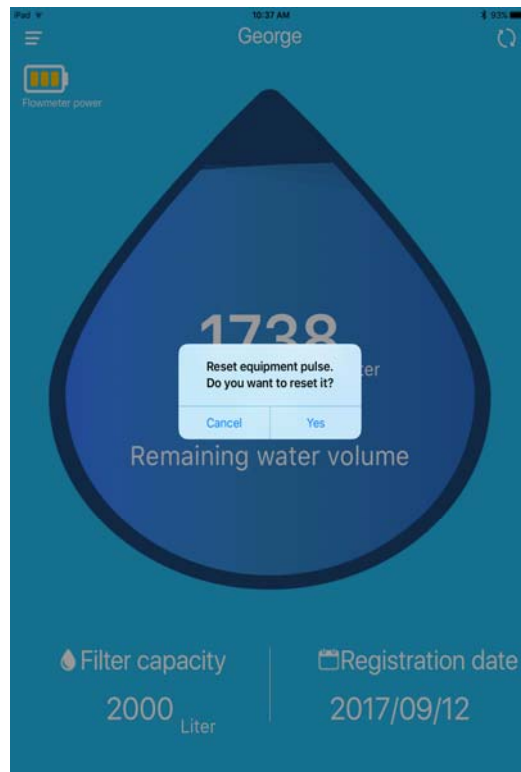

6.6 List of records

Getting into the "List of Records" of the manual bar of the iMeter APP could check all of the records of the filter capacity and updated date.

Date	Remaining water volume	Total water volume
2017/11/29	1738Liter	2000Liter
2017/11/29	1738Liter	2000Liter
2017/11/29	1738Liter	2000Liter
2017/11/29	1738Liter	2000Liter
2017/11/29	1738Liter	2000Liter
2017/11/29	1738Liter	2000Liter
2017/11/24	1791Liter	2000Liter
2017/11/24	1791Liter	2000Liter
2017/11/22	1836Liter	2000Liter
2017/11/22	1836Liter	2000Liter
2017/11/20	1890Liter	2000Liter
2017/11/20	1891Liter	2000Liter
2017/11/20	1891Liter	2000Liter
2017/11/20	1892Liter	2000Liter
2017/11/20	1892Liter	2000Liter

6.7 Reset

Getting into the "Reset" of the manual bar of the iMeter APP could reset the filter capacity to the original setting capacity.

Federal Communication Commission Interference 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.

This equipment has been tested and found to comply with the limits for a Class B 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 try 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 that
   to 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.

FOR MOBILE DEVICE USAGE (>20cm/low power eg. AP routers)

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 20cm between the radiator & your body.