Instructions

Product Name： FF-T1_Wireless Pump

Product Model： FF-W-0005-002

1、Product Overview

1.1、The main structure

This specification describes a miniature wireless pump, which is mainly composed of brushless DC electric motor and centrifugal pump (as shown in Figure 1). It has the characteristics of small size, full sealing of electrical components, wireless power supply, built-in water level sensor to realize water shortage protection, safe, reliable and super quiet. Mainly suitable for pet drinking machine.

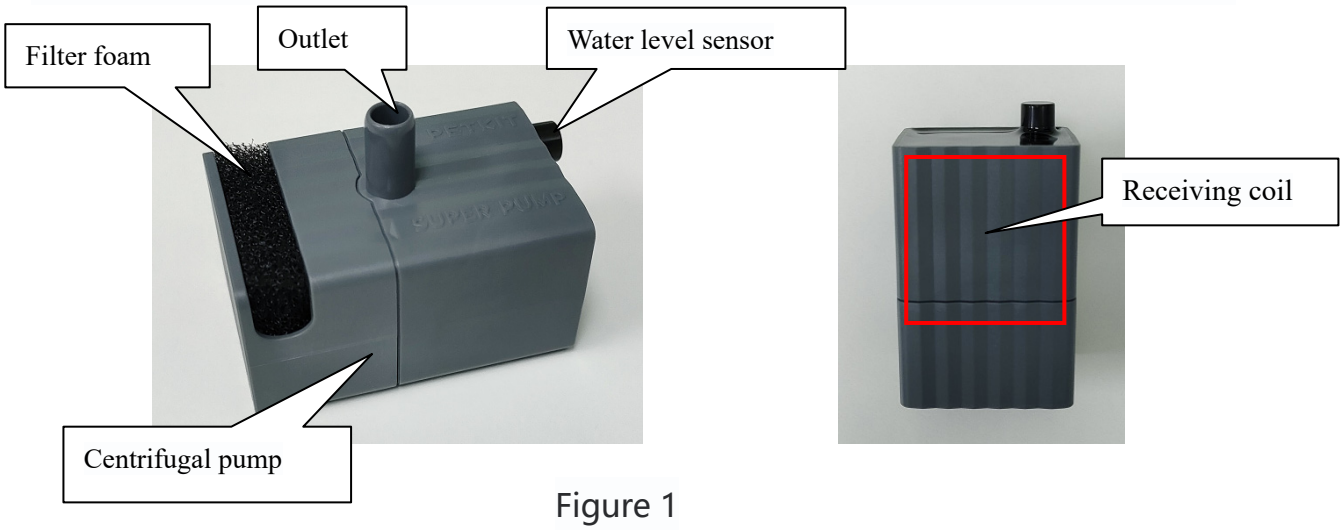


Figure 1

1.2、The working principle of

Through the wireless transmitter to pump motor drive board power supply, when the water level submerged sensor 1/2 ~ 2/3, the pump began to work, water from the outlet pump; When the water level is lower than the sensor, the drive plate stops output and the pump stops working.

2、Outline drawing

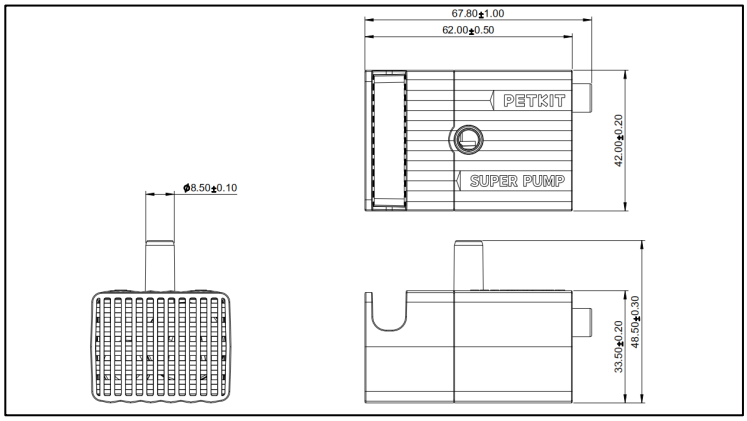


Figure 2

3、Product marking

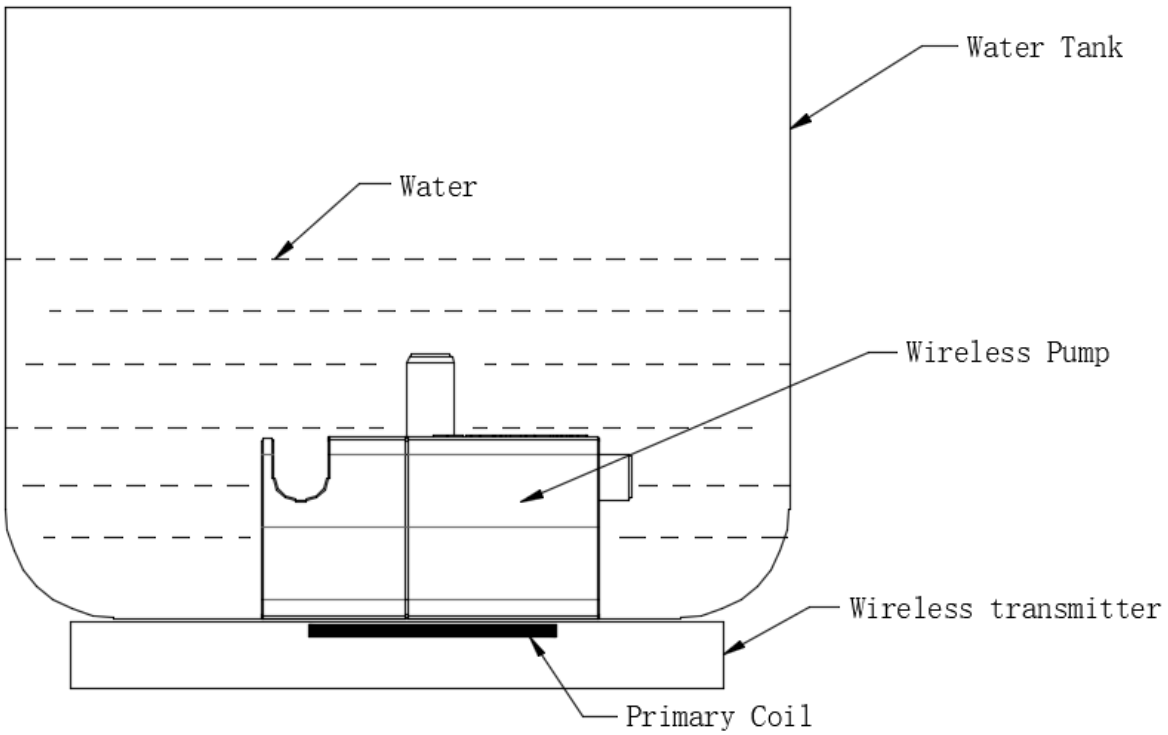
Figure 3

4、Main parameters

Item		Standard	Test equipment	test frequency
5.0V	Load current	120～150(mA)	Ac and DC electrical parameter tester, wireless transmitter	All inspection of production line
	Water shortage stop current	90～120(mA)	Ac and DC electrical parameter tester, wireless transmitter	All inspection of production line
	Load power	≤0.8(W)	Ac and DC electrical parameter tester, wireless transmitter	All inspection of production line
	Lift	17～20(cm)	Pump performance test stand, wireless transmitter stand	Sampling inspection
	Maximum flow	1.20～1.40(L/min)	Pump performance test stand, wireless transmitter stand	Sampling inspection
	Transmission distance(mm)	6mm	Test Fixture	Sampling inspection
low-voltage start-up		≤4.4 (V)	Pump performance test bench, wireless transmitter base DC power supply, wireless transmitter base, water tank	All inspection of production line
Maximum Excitation Voltage		≤6V	Pump performance test bench, wireless transmitter base DC power supply, wireless transmitter base, water tank	Sampling inspection

Water level monitoring	Water level monitoring power status, water level is lower than the sensor, the pump stops working; When the water level submerges the sensor 1/2 ~ 2/3, the pump starts to work.	Pump performance test bench, wireless transmitter base DC power supply, wireless transmitter base, water tank	All inspection of production line
Noise	≤30（dB）	Sound level meter	Sampling inspection
Life Time	≥20000(Hour)	Endurance tests	Sampling, type test

5、**Installation Method**



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 warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 or more 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.

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.