



ATO One SE

Quick Start Guide

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Know ATO One SE

ATO One SE is a smart water replenishing device for meeting the needs of using freshwater reservoir. As long as the sensors and refill pump are installed, it can work after powering on without any settings. Standard 1 optical level sensor is used to monitor the water level to determine whether water needs to be replenished. Standard 1 float level sensor is used to prevent overflow. An optional float level sensor is available to monitor the freshwater reservoir for water shortage. ATO One SE is rich in status indicators. When the Anti-overflow Sensor or overtime, the refill pump is not inserted or the freshwater reservoir is short of water, the ATO One SE will have an indicator light and a buzzer alarm.

Packing List

Item	Picture	Description
Controller x 1		1.The controller comes with 2 level sensors S1: Float sensor S2: Optical sensor 2. Optical bracket (large mouth) x 1 3. Float bracket (small mouth) x 1 4. Plastic magnet x 4
Power Adapter x 1		DC 12V 1A Support US/EU/GB/ AUS standard
Refill Pump x 1		For refilling water
Tube Holder x 1		For fixing water pipes
Siphon Break x 1		1/4straight through to prevent siphoning
PVC pump tube x 2 m		Pipe diameter 8*11mm
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Panel



- S1: Anti-overflow Sensor
- S2: Refill Sensor
- S3: Freshwater Empty Sensor Jack
- DC12V: Power DC Jack
- Pump: Refill Pump Jack
- Power: Power indicator (Green)
- Filling: Refill indicator (Blue)
- Alarm: Alarm indicator (Red)

Note: S3 sensor is optional and needs to be purchased separately.

Alarm and Reminder

State	Alarm	Action
Fast beep, red light flashes synchronously (On 0.1s, Off 0.1s)	Pump is not inserted or faulty	1. Check the refill pump connection. 2. If the problem is not solved, replace a refill pump.
Medium-fast beep, red light flashes synchronously (On 0.5s, Off 0.5s)	Overflow alarm	1. Check if the S1 sensor is installed correctly. 2. Clean the probe of S1 sensor and put it in the water. If refilling water is constantly on, the S1 sensor is damaged.
Medium beep, red light flashes synchronously (On 1s, Off 1s)	Timeout alarm	1. Check the optical sensor has stains or foreign objects. 2. Power off and restart
Slow beep, red light flashes synchronously (On 1s, Off 3s)	Liquid shortage alarm	1. If the S3 sensor is used, check if the freshwater reservoir is short of liquid.

Installation

Step 1: Mount the optical sensor (S2) to normal water level. **Note that the optical level sensor should be away from the air bubbles, otherwise it will be misunderstood due to interference.**

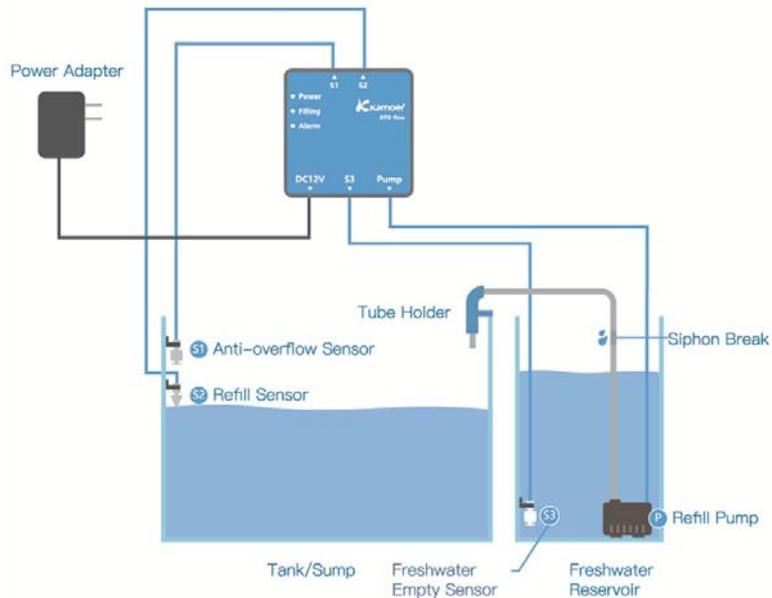
Step 2: Mount the float sensor (S1) above normal water level. If the water level reaches this position, it means that the optical sensor has failed, the device will alarm and force the refill pump to stop working. **Note that the float sensor bracket cannot be reversed and should be away from the floater, otherwise the plastic magnet will interfere with the sensor signal;**

Step 3: Connect ATO refill tube (Pump <-> Siphon Break <-> Tube Holder). **Note the siphon break should be installed in the freshwater reservoir and ensure that it is higher than**

the position of the liquid level of the freshwater reservoir at any time.

Step 4: Connect the refill pump's cable to the **Pump** jack; **Note that there is a valve control flow on the make-up water pump net cover, which is set to the required position according to the actual use.**

Step 5: Connect the adapter's cable to the **DC12V** jack and power up the adapter.



Note

- Please use the power adapter that comes with the product.
- The optical liquid level sensor is susceptible to the influence of dirt. Please pay attention to erasing the dirt on the sensor.
- This product does not have waterproof function. Please use it in the environment of temperature 0-40 ° C and humidity <80%.

Warranty

We warrant your product against any defect in material and workmanship, under normal use. In the event a product is found to be defective within the warranty period of **One year**, we will, at our option, repair or replace the defective product. The warranty period starts at the day of purchase. For warranty validation, a proof of purchase must be furnished.

The followings are excluded from the warranty:

1. Improper use of the device causing malfunction;
2. The device is repaired or modified by an unauthorized person;
3. Use of non-produced material by our company i.e. pump tube;
4. Damage by disaster;
5. Improper maintenance causing damage;
6. Use of reagent or sample causing corrosion;
7. Damage by accident or over load;
8. Consumables, such as silicone tube and fuse etc.