AUTOAQUA

Smart ATO RO

## Manual

Model

SATO-460V

## List of Parts (Can Be Purchased Separately)

Item	Picture	Description
Smart ATO RO Controller		1. Controller with two Dual Sensors 2. Max. Mounting Thickness : 1/2 inch (12.7 mm)
Universal Power Adapter		Universal Power Supply : 100-240 VAC
RO Solenoid Valve		For use with RO/DI Systems and 1/4-inch RO Tubing
Float Valve Kit		For additional overflow protection : • Adjustable Float x1 • Universal Holder x1 • Quick Connect Fitting x1
1/4-inch RO Tubing 9.8 ft (300 cm)		For use with Float Valve Kit or RO Solenoid Valve

Controller & Dual Sensors

■ High Level Dual Sensor

High Level Failsafe Sensor

High Level ATO Sensor*

■ Low Level Dual Sensor

Low Level ATO Sensor*
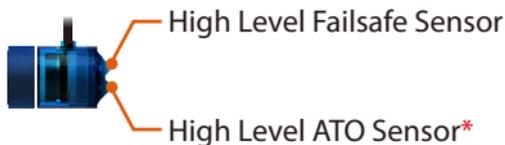
Low Level Failsafe Sensor
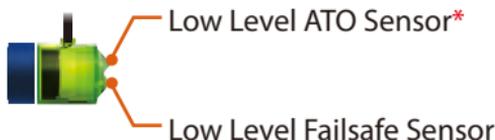
*The High Level ATO Sensor must be at least 1/4 inch (6 mm) higher than the Low Level ATO Sensor, or Smart ATO RO will not work properly.

■ Smart ATO RO Controller

Touch Button: 1. Start/ pause/ resume filling
2. Switch off the alarm.**

**Touching the button will not clear the QST memory. Please unplug the power cord and plug it back in to clear the memory.

LED Indicator

Power

RO Solenoid Valve
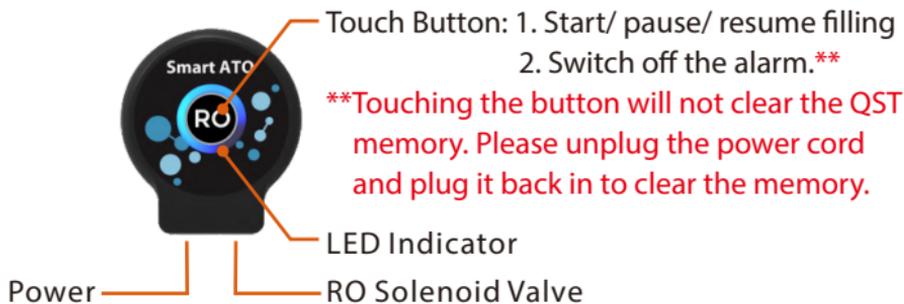
Caution : Risk of Injury from Strong Magnets

Installation

i. Float Valve Kit

❶ Take off the nut from the adjustable float, put the universal holder through the threaded portion, and fix the holder with the nut.
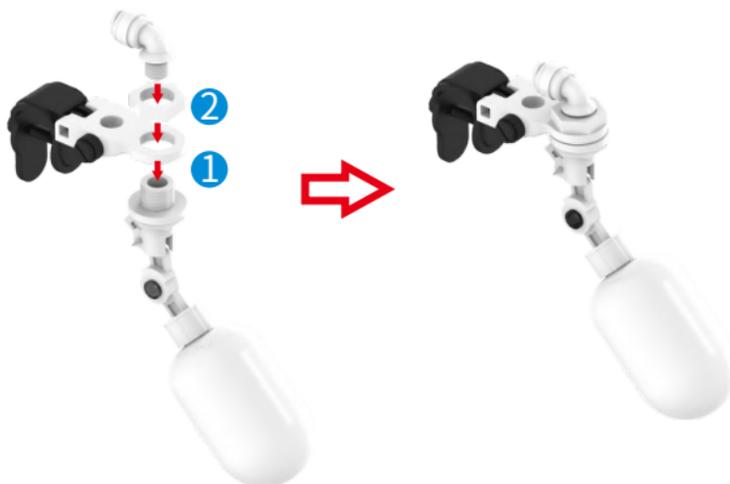
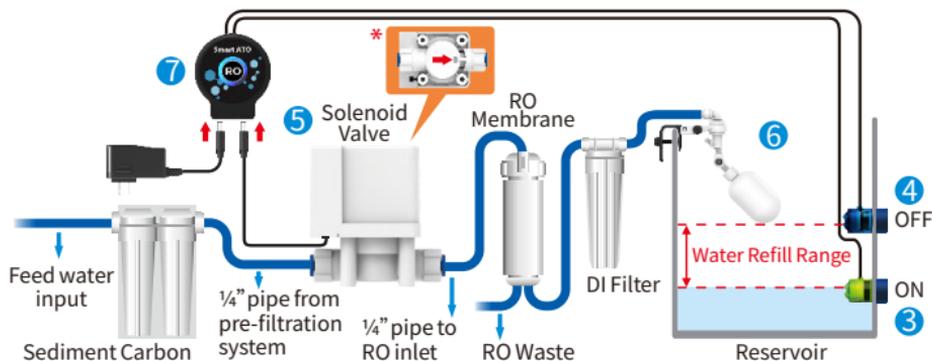❷ Screw the quick connect fitting into the adjustable float.

ii. Smart ATO RO

❸ Mount the green sensor at the low water level (with the top sensor indicating the low water level) on the reservoir with the magnet.*

❹ Mount the blue sensor at the normal water level (with the lower sensor indicating the normal water level) on the reservoir with the magnet.*

❺ Connect the RO solenoid valve with the RO/DI system as the installation diagram shows.

❻ Connect the RO tubing with the quick connect fitting of the float valve kit, and then fix it on the reservoir.

❼ Connect both of the RO solenoid valve and power adapter with the controller, and then connect power.

*Please avoid setting up the sensor in an area with micro bubbles or direct light.

Installation

a. RO/DI System without Auto Shut Off
Cut the tubing between the carbon block filter and the RO membrane. Connect the tubing to the solenoid valve (*pay close attention to the directional water flow arrow on the solenoid valve*).

Feed water input
Sediment Carbon
¼" pipe from pre-filtration system
¼" pipe to RO inlet
RO Waste
Solenoid Valve
RO Membrane
DI Filter
Water Refill Range
Reservoir
OFF
ON

Note: Filtered water is required to prevent sediments from clogging the solenoid valve. Do not install the solenoid valve before your water filtration system.

b. RO/DI System with Auto Shut Off
Connect the water line outlet to the inlet of the solenoid valve (*pay close attention to the directional water flow arrow on the solenoid valve*).

¼" pipe from RO/DI outlet
Solenoid Valve
Water Refill Range
Reservoir
OFF
ON
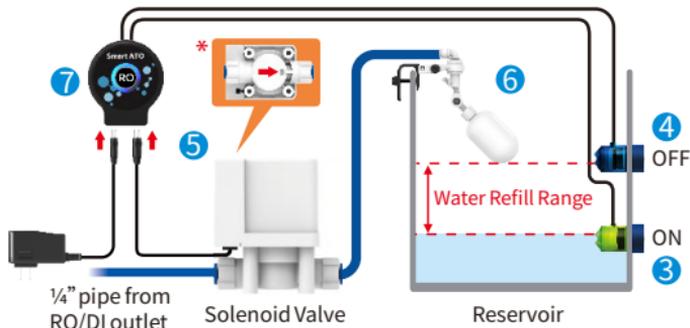
Operation

1. When Smart ATO RO is powered up, the LED indicator will fade up blue and orange.
2. Smart ATO RO will perform a one-time filling automatically after every power-up if the low level ATO sensor detects no water. If it detects water after power-up, it will turn to standby mode.
3. Touching the button can start or pause filling manually.

LED Color	Status	Description	Action
Blue	Solid	Standby Mode	N.A.
	Circling	Filling	N.A.
	Flashing every 3 sec.	Filling pauses	N.A.
	Flashing with short beeps	Low Level Failsafe Sensor detects no water	N.A.
	Fading up with a long beep	Pump connection failure	Check the connection of the pump and the controller.
Alternating Blue & Orange*	Flashing with short beeps	QST alarm: abnormal filling time	Check if the RO/DI system works properly.
Orange	Flashing with short beeps**	High Level Failsafe Sensor detects water	N.A.

*Please unplug the power cord and plug it back in to clear QST memory.
**For small reservoirs, the High Level Failsafe Sensor may be triggered after each refilling. This is normal and no action is required.

Quick Security Technology (QST)

Smart ATO RO uses QST for real-time protection against any failure situation. The controller will give an audible and visual alert when it senses any other refilling time is 6 times longer than the first filling time.*

For example, if the first filling time is 10 sec., it will alert when any other refilling time is over 60 sec.

*Note : No security time control for the first filling.

Specifications

1. Power Input : 100-240 VAC 50-60 Hz
2. RO Solenoid Valve :
   - 6 W @ 12 VDC
   - 1/4-inch RO Tubing Connection
3. Max. Mounting Thickness :
   - Sensor : 1/2 inch (12.7 mm)
   - Universal Holder : 3/4 inch (19 mm)

Limited Warranty

1. Limited warranty is provided by AUTOAQUA only if your AUTOAQUA Product ("Product") was purchased from an authorized distributor or an authorized reseller.
2. All warranty repairs or replacement are performed by the authorized distributor or authorized reseller in the region where the Product was first shipped by AUTOAQUA.
3. The limited warranty is valid for a period of 1 year under proper installation and normal use from the date of the original purchase listed on the proof of purchase or sales receipt.
4. In the event of a limited warranty claim, proof of purchase or sales receipt (issued to the original purchaser) is required.

Purchase Date	Warranty Period
(Y/M/D)	One Year from the purchase date

Place of Purchase	Service
(Store name, phone, email, address)	AUTOAQUA Technologies Co., Ltd. 7F-7.,NO.229,Fuxing 2nd Rd.,Zhubei City, Hsinchu County,Taiwan E-mail : service@autoaqua.com.tw www.autoaqua.com.tw * Please go to AUTOAQUA website to get the distributor information.

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