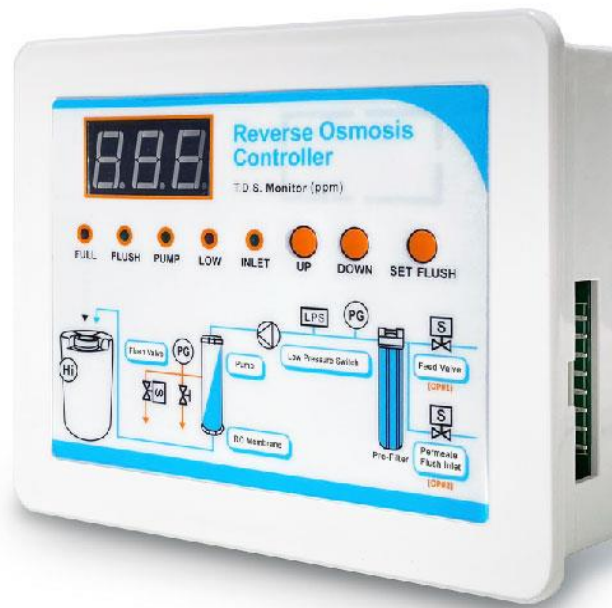


RO Controller C-5TM

User Manual

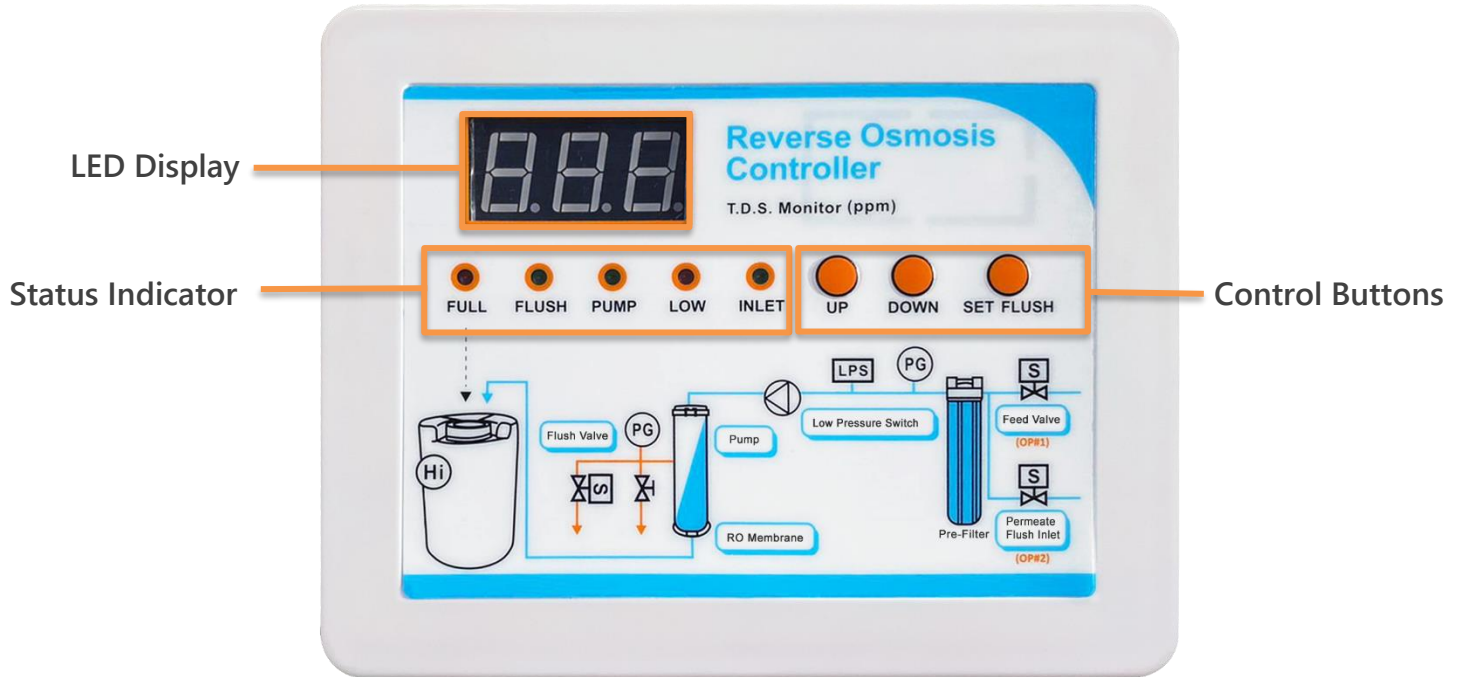


Patent Number : M600753

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C-5TM RO Controller Overview








Control Panel



Status Indicator Description


Status Indicator	Color	Description
Full	● Red	When the permeate storage tank is full, the RO system will stop making water and stand by.
Flush	● Green	The system is running an automatic flush cycle of the RO membrane.
Pump	● Green	The RO high-pressure pump is running and making water.
Low	● Red	The inlet water pressure below default pressure.
Inlet	● Green	The water inlet solenoid valve starts and feeds water.

Control Buttons

Control Buttons		LED Display	Description
	+		The value increases with each press.
	-		The value decreases with each press.
	SET/ FLUSH		<ul style="list-style-type: none"> While the RO system is running, press the SET/FLUSH buttons once, and the RO membrane flush starts (30 seconds countdown). Pressing again will stop the flush countdown and resume normal operation. Press and hold for 3 seconds to enter the Setup Mode. Use the +/- buttons to select Setup Mode, then press again to enter numerical mode. Use the +/- buttons to adjust to the desired value, then press again to confirm.
Setup Mode	FUL		Setup time for Tank-Full slow flush (30 seconds default).
	OSC		Setup running hours for Timed fast flush (6 hours default).
	SFH		Setup time for Startup slow flush (30 seconds default).
	FOC		Setup time for Timed/Manually fast flush (30 seconds default).

NOTE : You can also customize the security password mode, please contact us.

Display Description (OPA Mode)

LED Display	Indicator Status	Description
		When the power is on, the screen will first display "888" and the default mode "OPA", then the raw water solenoid valve starts and feeds water.
		Startup Flush: the screen displays "030~000", and the countdown is 30 seconds.
		Start the pure water production, the number displayed on the screen is the TDS value of the pure water, and the indicator "PUMP" lights up.
		Start the Timed Flush: The default setting is every 6 hours flushing 30 seconds, and the screen displays a countdown of "A30~A00".
		When the water tank is full, start to Tank-Full flush for 30 seconds, and the system will stand by.
		When the water tank is low (below the set pressure), the display shows "LO", the indicator LOW/INLET lights up, and the system will continue to feed water. The wastewater end will continue to drain until the inlet water pressure reaches the set value. When the indicator "LO" lights off, the system will flush for 30 seconds and resumes water production.
<p>NOTE If the pressure cannot reach the default value, please turn off the power and check your inlet water pressure. It is recommended to double confirm with the factory your raw water inlet pressure before installation.</p>		
		Start the Manual Flush: Press the  SET/FLUSH button once, and the system will start a 30-second flush. Then the RO high-pressure pump resumes operation and starts to produce water.
		The default TDS range is 0 to 999 ppm, and the display flashes beyond the range of 999. (OPA mode is suitable for raw water TDS < 1,000ppm)

Additional Information

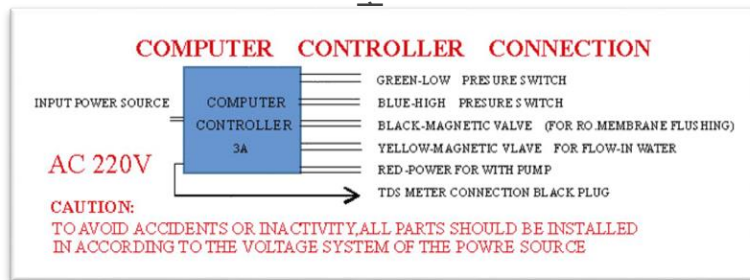
1. The high-pressure pump does not activate in Boot Flush Mode.
2. In Flush Mode, the high-pressure pump is only activated for Manual and Timed Flush.
3. There are 4 Flush Modes: Tank-Full (FUL), Timed (OSC), Startup (SFH), and Manual (FOC). The flush time can be adjusted to 0 (which means turn-off flush function), and the number of seconds of the flushing time can be adjusted to 1 unit per second.
4. Timed Flush is only counted according to the water-making time, and it will be re-timed after Manual Flush.

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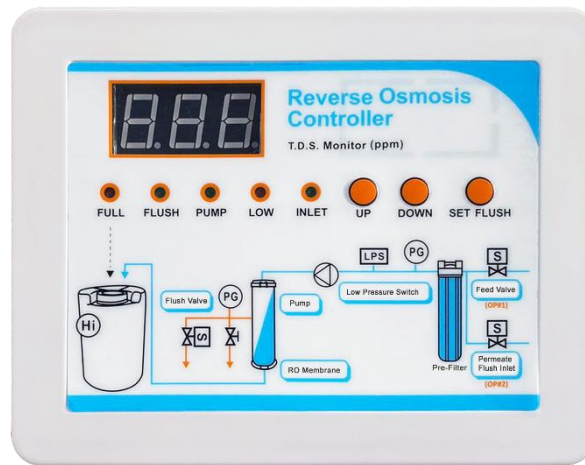
C-5TM Connection Instruction

Please read the wiring diagram shown on the back of the control box first. (As below)
To avoid failure and safety, all components must operate at the corresponding contacts and voltages.

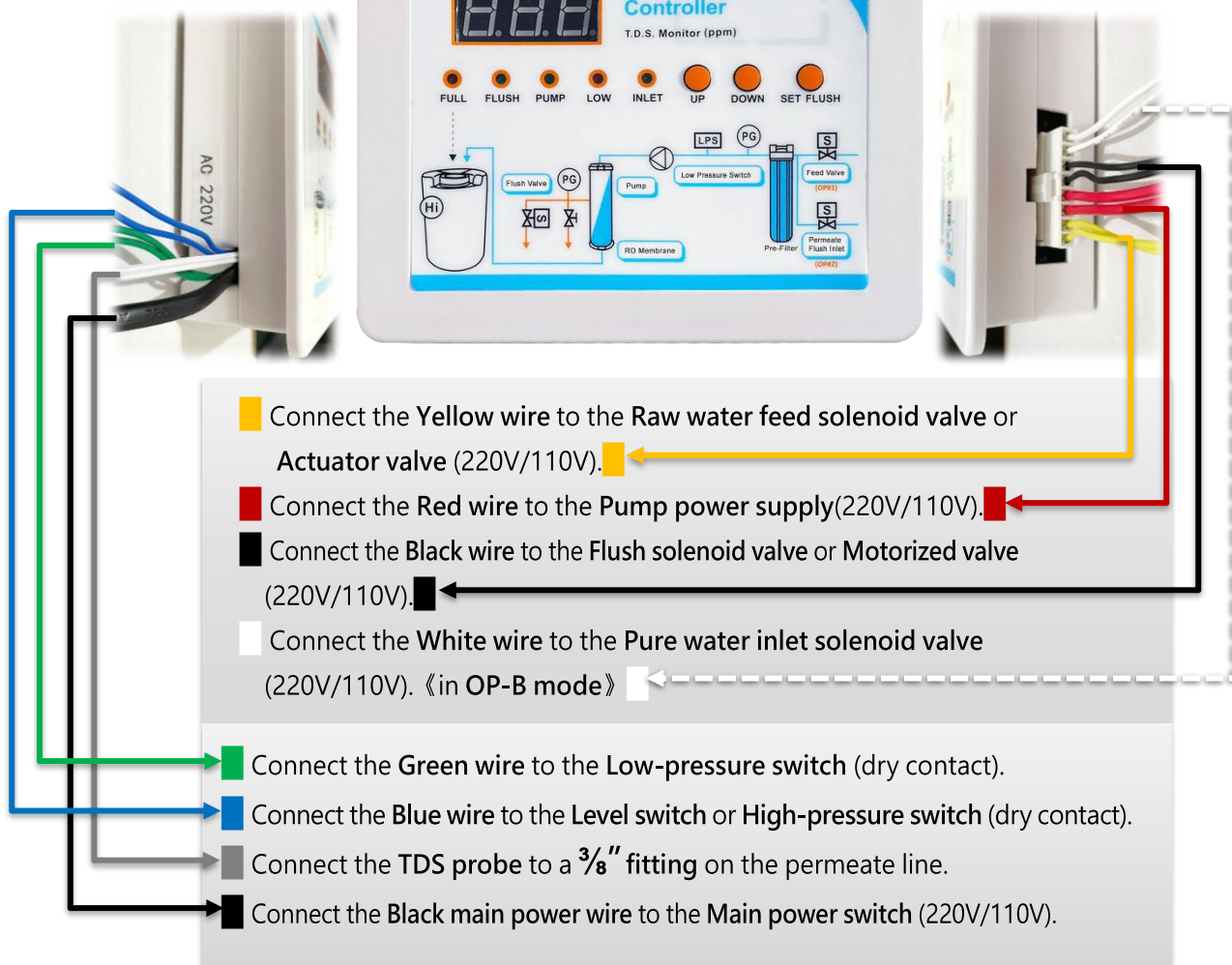
Back of control box Wiring diagram



Left side view



Right side view



3 Additional Settings

The following chapters are customized settings, please note that we don't take responsibility if you change it by yourself. Please contact us if necessary.

Operation Mode

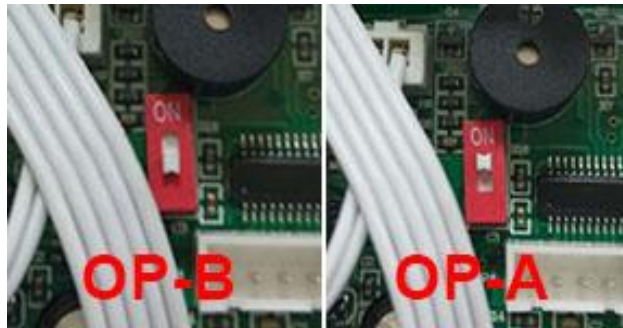
C-5TM RO controller has two modes (**OPA/OPB**) that can be set up.

OPA Basic Mode - Flush solenoid valve with raw water (Designed for the raw water TDS <1,000ppm).

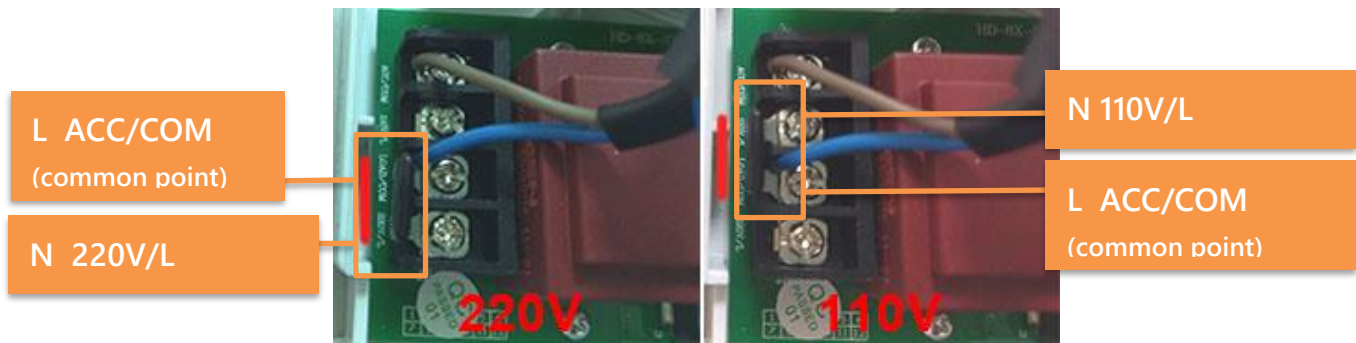
OPB Desalination Mode - Use pure water to flush the solenoid valve (Designed for raw water TDS > 1,000ppm, like brackish water or seawater).

Note: OPB mode requires an additional solenoid valve.

- When the system power is on, the mode shown on the LED screen of the control panel for the first second is the current operating mode.
- It is necessary to set the OPB mode if the TDS of the raw water is greater than 1000pm, the RO system must be designed using the pure water flush to avoid the risk of corrosion.



Input Voltage Setup



C-5TM RO controller has two voltage modes (220V/110V) which can be changed by switching the jumper location.