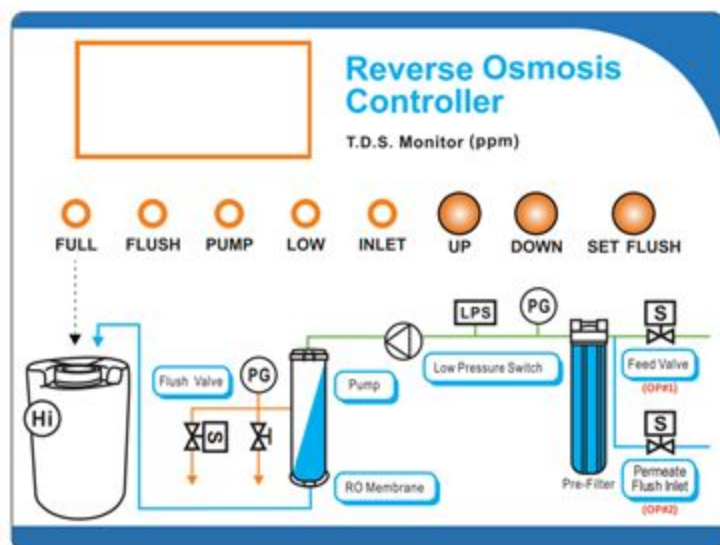




C-5TM Industrial RO Controller Operating Manual



Display Description

Status Lamps

- FULL** Alerts operator when the permeate storage tank is full. The light will turn red and the RO system will stop automatically.
- FLUSH** This lamp is green while the system is going through an automatic flush cycle.
- PUMP** This lamp is green while the high-pressure pump (system) is operating normally and delivering raw water to the membrane(s).
- LOW** This lamp is red when there is insufficient feed water pressure.
- INLET** This lamp is green when the feed solenoid valve is opened.

Control Buttons

- SET FLUSH** Press once to initiate a membrane flush cycle while the system is in normal operation for preset (30 seconds) time. Press again will stop the flush cycle and resume to normal operation.
Press and hold for 3 seconds to enter to setup mode.



Use up and down buttons to select the mode then press again to value mode.

Use up and down buttons to adjust the desired value.

After the value is adjusted, press again to confirm.

Setup Mode Description

- FUL** Setup time for tank-full slow flush (Preset 30 seconds)
- OSC** Setup running hours for periodically fast flush (Preset 6 hours)
- SFH** Setup time for initial start-up slow flush (Preset 30 seconds)
- FOC** Setup time for periodically/manual fast flush (Preset 30 seconds)
- OPO** Setup up passwords for initial start-up

Setup Passwords

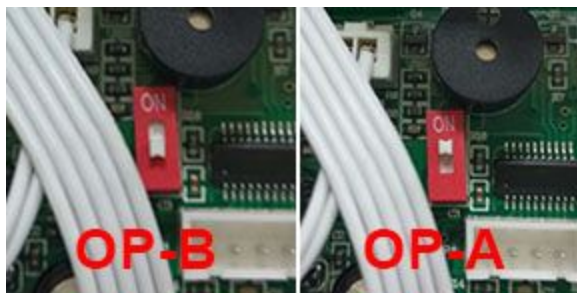
OPO = Password Disable

OPI = Password Enable

After OPI has been selected during setup mode, use up and down buttons to choose 3 digit passwords, then press **SET FLUSH** button to confirm.

Be Extra Caution that once the password requirement is activated, you must remember the password you have set for, or you may not be able to start-up the system if the password is lost.

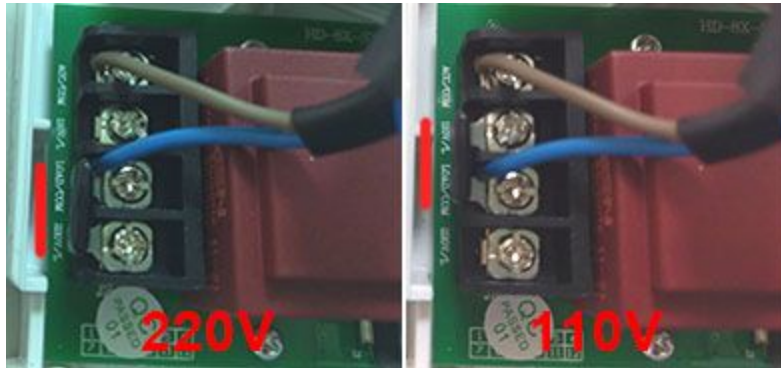
Operation Mode Description



- OP-A Mode Tank-full slow flush and manual/periodically fast flush
 uses feed raw water solenoid valve (designed for feedwater TDS < 1,000ppm)
- OP-B Mode Tank-full slow flush and manual/periodically fast flush
 uses feed pure water solenoid valve (designed for feedwater TDS > 1,000ppm)



Input Voltage Setup



Operational Logic Description

POWER ON -> LED Shows OP-A or OP-B -> Inlet Valve Opens -> Delay 2 seconds -> Initial Slow Flow count down -> Flush Valve Closes -> Delay 3 seconds (tank full and low pressure detection) -> High Pressure Pump Starts (LED Shows TDS Value)

The high-pressure pump will stop when feed water pressure is low (LED Shows LO)

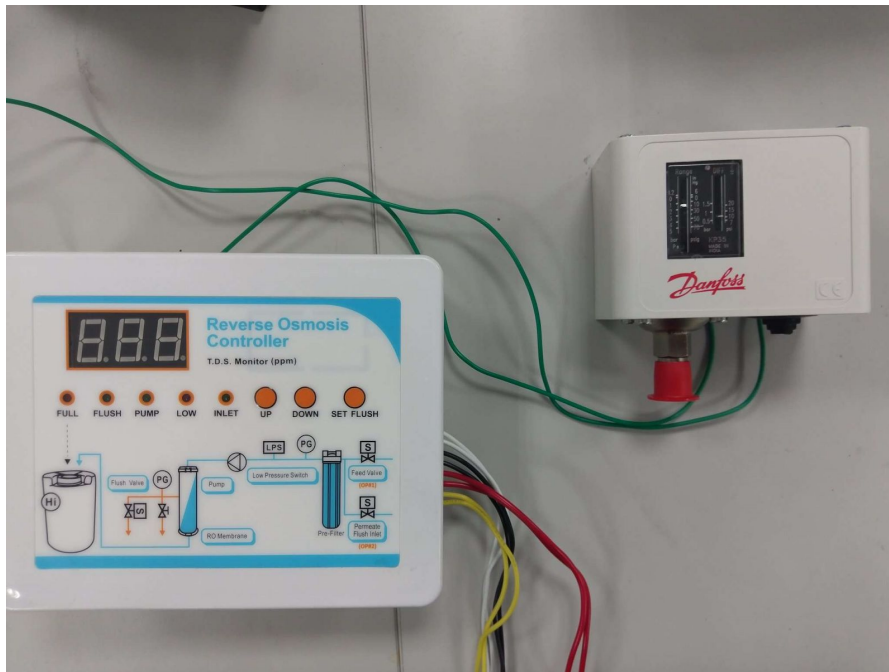
When the permeate water storage tank has detected at full level, the system will shut down after the 30 seconds count down of flushing. (LED Shows FUL)

Installation Instructions

1. Mount the panel to a control panel or a system front panel



2. Connect the Green wire to the low-pressure switch (dry contact)



3. Connect the Blue wire to the level switch or high-pressure switch (dry contact)

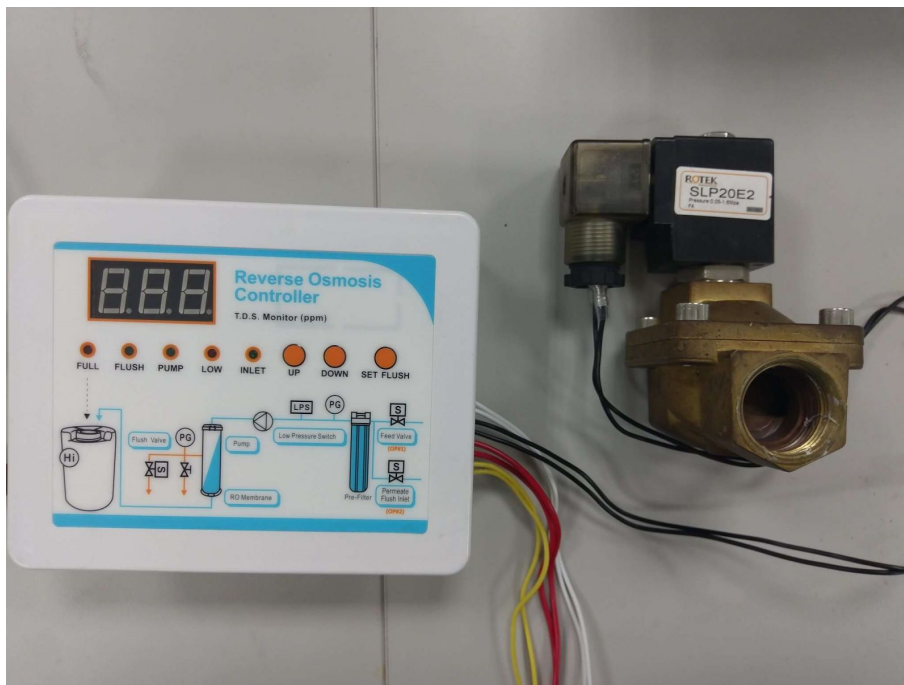




4. Connect the TDS probe to a $\frac{3}{8}$ " fitting on the permeate line.

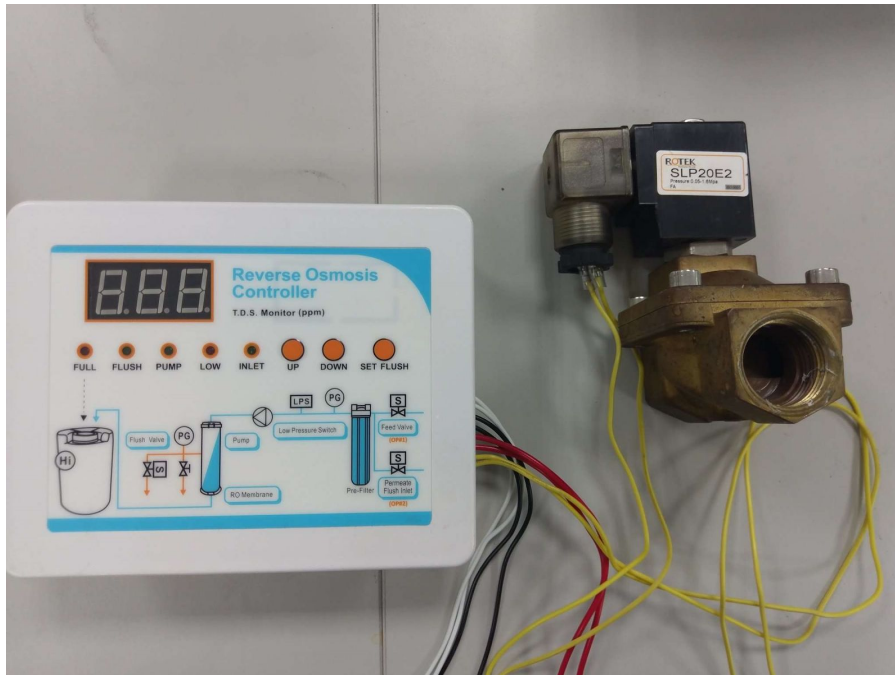


5. Connect the Black wire to the flush solenoid valve or motorized valve (110V/220V)

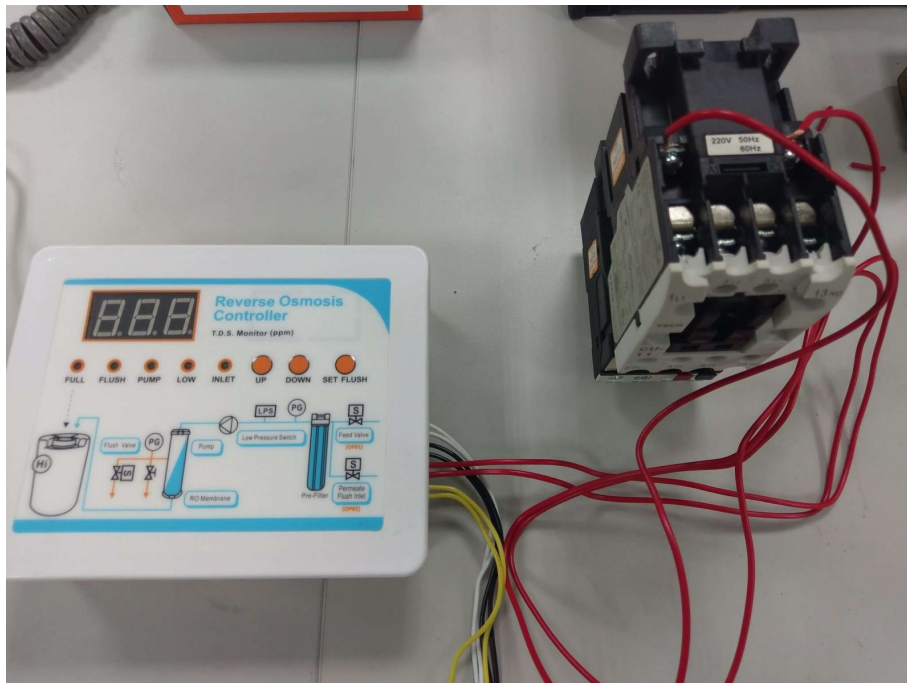




6. Connect the Yellow wire to the raw water feed solenoid valve or actuator valve (110V/220V)

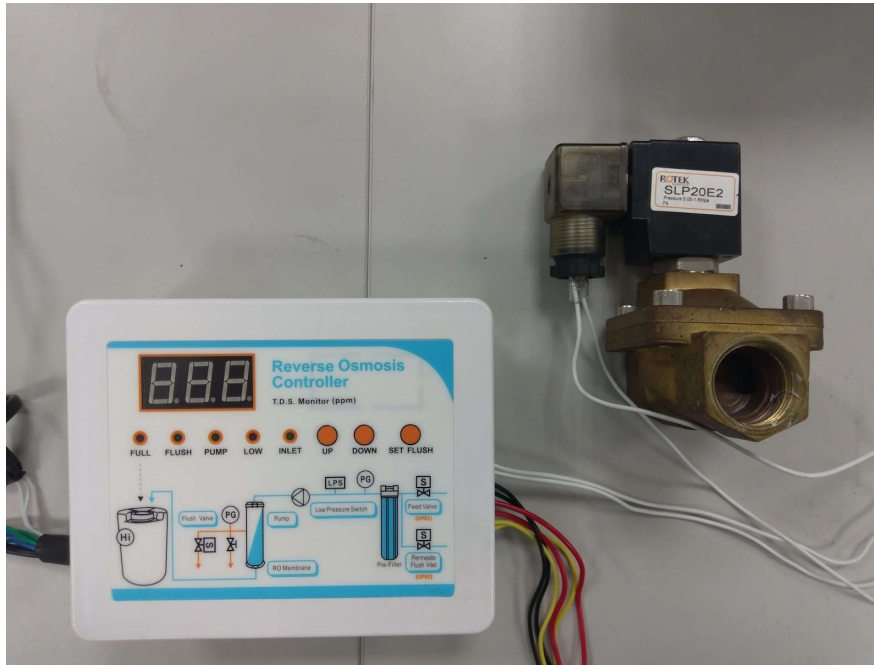


7. Connect the Red wire to the pump contactor / (110V/220V)





8. Isolate the White wire if the system is operating for OP-A mode, or connect the White wire to pure water feed solenoid valve or actuator valve for OP-B mode (110V/220V)



9. Connect main power wire to the main power switch

