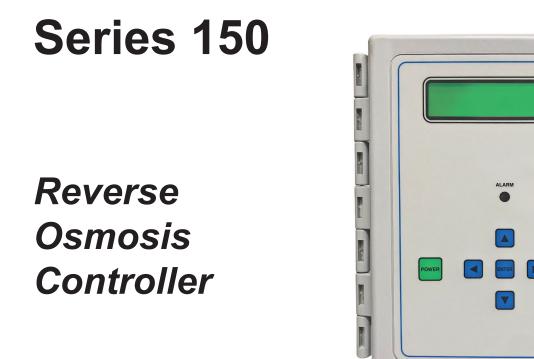


Data Sheet—



Key Features

- 2-line by 20-character, backlit LCD display
- Multi-function keypad
- Visual and audible alarm
- Programamble flush modes and setpoints
- Low pressure automatic reset
- Hinged NEMA 4X enclosure
- TDS/Conductivity monitor and sensor
- Permeate monitor and sensor are temperature compensated

Application

The Advantage Controls Series 150 Microprocessor Controller is an ideal solution for the monitoring and control of light commercial reverse osmosis units. This economical controller provides relays for the RO pump, inlet solenoid valve, and membrane flush solenoid valve.

S150

The dry contact switch inputs monitor storage tank level, low and high pressure switch signal, and system lockout for pretreatment backwash or regeneration for on/off operation. All inputs and outputs are controlled with time delays for proper operation.



Build a Model

Base Control Selection

- **S150** = Inlet solenoid, flush time delay, pressure switch, and TDS
- **S151** = Model 150 with I/O expander for permeate divert or remote alarm relay, plus auxiliary relay with low tank input
- **S152** = Model 150 with second TDS board and sensor
- **S153** = Model 150 with second TDS board, sensor, and I/O expander

Controller Supply Voltage

- **1** = 120 VAC
- **3** = 120 VAC with UL labeling
- **2** = 220 VAC
- 4 = 220 VAC with UL labeling

Permeate Conductivity Scale

Second Conductivity Scale

Only available on S152 and S153, use "X" for S150 and S151.

X = No conductivityF = 0.2500 PPM**A** = 0-50 PPM **G** = 0-5,000 PPM **B** = 0-100 PPM **H** = 0-9.999 PPM **C** = 0-250 PPM J = 0.50 uS**D** = 0-500 PPM $K = 0.100 \, \text{uS}$ **E** = 0-1.000 PPM $L = 0.250 \, \text{uS}$ $M = 0.500 \, \text{uS}$ $N = 0.1.000 \, \text{uS}$ P = 0.2,500 uSQ = 0.5,000 uS

Communications Type

0 = None
 1 = Ethernet communications - Modbus TCP, Bacnet IP, Ethernet IP

Enclosure

- **A** = 8"×6"×4" poly
 - **D** = $14" \times 12" \times 8"$ poly **E** = $16" \times 14" \times 8"$ poly
- **B** = 10"×8"×6" poly **C** = 12"×10"×6" poly
- **E** = 16"×14"×8" poly
- X = Enclosure defined in Motor Control model number, or no enclosure

Specifications

Power

120-240 VAC, 50/60 Hz, 25 Watts

Environment

-22°F to 140°F, 0-95% RH, noncondensing

Enclosure

8"x6"x4" NEMA 4x

Accuracy ± 2%

Display:

2 line x 20 character, alphanumeric backlit LCD

Front Panel

Overlay with LCD window, alarm lamp, 7-key membrane switch

Relay Outputs

- RO pump relay
 120/240 VAC, 1HP
- Inlet valve relay 120/240 VAC, 5A
- Flush valve relay 120/240 VAC, 5A

Relays supply same output voltage as board power (120 or 240 VAC)

Controls and/or Monitors

- RO high pressure pump motor
- Inlet solenoid valve
- Automatic flush solenoid valve
- Low feed pressure switch
- High pump pressure switch
- RO storage tank level switches (1 or 2)
- Permeate TDS/Conductivity
- Water temperature
- Pre-treatment lockout
- Operating hours

Optional

- Feed TDS/conductivity
- I/O Expander, permeate divert or remote alarm relay and auxiliary relay with tank-low input





Spe

Model _ - _ _ _ _ _