

C-200

Reverse Osmosis Controller



Key Features

- Visual status LED
- TDS monitor w/ sensor
- Jumper-selectable flush types
- Quick disconnect high-voltage terminals
- Panel-mountable enclosure

Application

Crystal Quest C-200 Microprocessor Controller is versatile controller for reverse osmosis systems. The controller offers features and options that make it an exceptional choice for large commercial and industrial reverse osmosis systems.

The C-200 provides pump control relays to operate the high pressure and auxiliary pump motors and the inlet valve and membrane flush valve. Pretreatment lockout, RO water storage tank level monitoring, and tank low repressurization lockout, are also standard features of the C-200. The controller monitors high and low pressure switches, or it can read and display pressures via analog signals from pressure sensors.

Build a Model

Model ___ - _____

Base Control Selection

C-200 = Inlet solenoid, flush time delay, pressure switch, two TDS sensors

C-201 = Model S200 with four (4) flow meter input PCB

Controller Supply Voltage.

1 = 120 VAC

2 = 220 VAC

3 = 120 VAC with UL labeling

4 = 220 VAC with UL labeling

Permeate Conductivity Scale

A = 0-50 PPM **D** = 0-500 PPM **K** = 0-100 uS

B = 0-100 PPM **E** = 0-1,000 PPM **L** = 0-250 uS

C = 0-250 PPM **J** = 0-50 uS **M** = 0-500 uS

N = 0-1,000 uS

Second Conductivity Scale

X = No conductivity **F** = 0-2,500 PPM **M** = 0-500 uS

A = 0-50 PPM **G** = 0-5,000 PPM **N** = 0-1,000 uS

B = 0-100 PPM **H** = 0-9,999 PPM **P** = 0-2,500 uS

C = 0-250 PPM **J** = 0-50 uS **Q** = 0-5,000 uS

D = 0-500 PPM **K** = 0-100 uS **R** = 0-9,999 uS

E = 0-1,000 PPM **L** = 0-250 uS

Communications Type

0 = None

1 = Ethernet communications - Modbus TCP, Bacnet IP, EtherNet/IP

pH and ORP

X = No pH or ORP

A = Feed pH only, no probe

B = Feed ORP only, no probe

C = Feed pH and ORP, no probes

D = Feed & permeate pH, no probes

E = Permeate pH only, no probes

G = Feed pH only with probe

H = Feed ORP only with probe

J = Feed pH and ORP with probes

K = Feed & perm. pH with probes

L = Permeate pH only with probes

Enclosure

3 = 12"×10"×6" poly **5** = 16"×14"×8" poly

4 = 14"×12"×8" poly **9** = Enclosure defined in Motor Control model number, or no enclosure.

Specifications

Power

80-265VAC, 50/60Hz

Enclosure

14"×12"×8" NEMA 4X (larger enclosures are required to accept motor starters)

Optional Accessories

- Modbus/BACnet communication
- pH, ORP sensor with display and alarm setpoints
- IEC motor starters and control transformers
- Flow sensors to display flow in GPM or LPM, with % recovery displayed and alarm set points for high and low flow rates
- Pressure sensors allowing display on LCD of pressures and differential pressures with programmable set points for high, low, and differential pressure alarms