**More Control, Less Hassle.**

A Superior Controller for Large RO Systems.

**Advanced Features, Uncompromised Quality**

1. **Superior Hardware Design:** Modular for easier assembly, easier service and superior flexibility. Clean logical layout with clear labeling and easy access.

2. **Superior Interface:** 4 line LCD with clear, common-sense information. Takes the guess-work out of monitoring the RO.

3. **Superior Electrical Design:** High-current wiring is stationary - not subject to flexing and twisting every time the controller door is opened. The terminal block is mounted to the back panel where it belongs. Wiring is easier, cleaner and more secure.

4. **Superior Protection:** Fully fused - because fuses cost less than circuit boards. Uses international standard fuses.

5. **Superior Filtering:** Robust protection from surges, interference or miswiring.

6. **Superior Power Supply:** Operates reliably on varying voltages.

**Custom Graphics.** Use your logo or brand name to upgrade the appearance of your systems and strengthen your brand. Or, add value for your customers by providing custom branding - at no extra cost!

**Superior Hardware Design:**

1. Modular for easier assembly, easier service and superior flexibility. Clean logical layout with clear labeling and easy access.

2. 4 line LCD with clear, common-sense information. Takes the guess-work out of monitoring the RO.

3. High-current wiring is stationary - not subject to flexing and twisting every time the controller door is opened. The terminal block is mounted to the back panel where it belongs. Wiring is easier, cleaner and more secure.

4. Fully fused - because fuses cost less than circuit boards. Uses international standard fuses.

5. Robust protection from surges, interference or miswiring.

6. Operates reliably on varying voltages.

**More Control.** I-controls flexible and powerful software gives you complete control over your RO system’s performance. Choose from 4 complete program profiles - use the factory presets, create your own settings or we’ll customize them for you.
**Intelligent Controls for Reverse Osmosis Systems**

**Pictorial Schematic of a Typical ROC-4 System**

**ROC-4 Specifications**

**Outputs**
- **Feed Solenoid**: 6A (Inductive). Voltage same as the supply voltage.
- **Flush Solenoid**: 6A (Inductive). Voltage same as the supply voltage.
- **Permeate Divert**: 6A. To drive valve, alarm, etc.
- **Pump Relay**: 6A, for coil of motor contactor. Motor current capacity based on the contactor selected.

**Inputs**
- **Tank level switches**: (2) Normally-Closed. Can be used with a single level switch.
- **Inlet pressure switch**: Normally-Open.
- **Pretreat lockout switch**: Normally-Open.
- **Controller Power**: 120/240 VAC, 60/50Hz
- **Permeate Conductivity**: 0-1500* PPM, 0-3000 µs
- **Feed Conductivity**: 0-3000* PPM, 0-6000 µs
  *With cell constant of 0.75. Higher ranges require a different cell constant.

**Other**
- **Dimensions**: 11.5" tall, 9.3" wide, 6.7" deep (10x8x6)
  13.5" tall, 11.4" wide, 6.7" deep (12x10x6)
  15.5" tall, 13.3" wide, 7.7" deep (14x12x7)
- **Weight**: 4.2 lb. (10x8x6)
  60 lb. (12x10x6)
  10.6 lb (14x12x7)
  *(Enclosure, CPU-3 and TB-3 only.)*
- **Environment**: 0-50°C, 10-90%RH (non-condensing)

**iControls**

i controls inc.
15916 SE 41st Place
Bellevue, WA 98006
(425) 577-8851 (PH) (425) 563-2089 (FAX)
email: info@icontrols.net
web. www.icontrols.net

©2009 i-controls inc. ROC-4 Lit