

RK2 ORP Controller Operation and Screen/Menu sequences

version 1.0

RK2 ORP Controller Operation

1. Apply power. (Controller goes through Bootup sequence.)
2. Configure menus. (See Key and menu notes.)
3. Return to Run Screen after configuring ORP Controller.

Key

Adjust	Press to scroll menus from Run Screen and to save configuration changes within menus.		Sky Blue – Run Screen
Enter	Use to scroll menu selections.		Red – Configuration/ Calibration menus
			Light Green – info screens. These screens display for 2 sec then advance to next screen in sequence

Run Screen

Run Screen

ORP = 300mV
Ozone = Off

Enter

System = Off
Setpoint = 400mV

Adjust

ORP = 300mV
Ozone = Off

Adjust

ORP Controller Entering Setup

NOTES Run Screen Display:

Current ORP reading → ORP = 300mV
Current Ozonizer state (ON or OFF) → Ozone = Off

ORP Control configuration setting → System = Off
Setpoint → Setpoint = 400mV

Menu 1 ORP Control

Menu 1 ORP Control

ORP Control
System – OFF Enter AUTO Enter ON

Adjust

NOTES:

On – Ozonizer On continuously regardless of ORP value
Off – Ozonizer Off continuously regardless of ORP value
Auto – Ozonizer On at < control value Ozonizer Off at setpoint value

See Ozone control menu for control on open/control on closed configuration.

Menu 2 ORP Setpoint

Menu 2 ORP Setpoint

ORP Setpoint
400mV Enter 405mV Enter 410mV.....

Adjust

NOTES:

Press Enter to increase setpoint.
Hold down Enter key for rapid scrolling of setpoint value.
Setpoint is user selectable 100-900mV.
Setpoint value increases in 5mV intervals.
Control point is fixed at -5mV. Example with Setpoint 400mV and ORP control Auto, relay energizes at 395mV ORP value.

Menu 3 Probe Calibration

Probe Calibrate
NO Yes

NOTES:
Perform 2 point calibration to ensure accurate ORP probe readings.
Calibration is recommended every 3-6 months.

Are You Sure?
NO Yes

Probe Calibrate
Place Prob 7-Q

Place Probe 7-Q
ORP = 90mV
(± 10-15mv is ok)

Probe Calibrate cancelled

Place Probe 4-Q
ORP = 275mV
(± 10-15mv is ok)

Probe Calibrate cancelled

Probe Calibrate
Complete. To Menu 4

Menu 4 Reset to Factory

Reset to Factory
No Yes

NOTES:
Factory Reset Configuration: ORP Control – OFF
ORP Setpoint – 400mV
Ozone Control – RK300MG

Are You Sure?
NO Yes

Factory Reset
Complete.

ORP Controller
Exiting Setup

ORP = 300mV
Ozone = Off



Menu 5 Ozone Control

Ozone Control
RK300MG Other

NOTES:
RK300MG - Control on Open
Other - Control on Close

Are You Sure?
NO Yes

ORP Controller
Exiting Setup

ORP = 300mV
Ozone = Off

Other Operation Notes:

- calibration and configuration data is retained in ORP controller if power to unit is lost
- there is no cancel button; any undesired selections must be reconfigured
- recommended power (when using dry contact "DRY" setting) 9VDC 250ma
- use power "PWR" setting when contactor is used to open and close relay. Power requirements in this configuration will vary.
- "DRY"/"PWR" these settings will be a factory configured