



Alarms(1)
Sensor (S1)
Temp (S2)

CONFIG
<b>Global Settings</b>
Security Settings

Additional Config Settings:  
 Display Settings  
 File Utilities  
 Controller Details

Config > Global Settings
<b>Date</b> 2017-Mar-22
<b>Time</b> 15:49:16

Additional Global Settings:  
 Global Units  
 Temperature Units  
 Alarm Delay  
 HVAC Modes  
 Language

Config > Security Settings
<b>Controller Log Out</b>
Security

Additional Security Settings:  
 Local Password

Config > Display Settings
<b>Home 1</b>
Home 2

Additional Display Settings:  
 Adjust Display  
 Key Beep

Config > File Utilities
<b>File Transfer Status</b>
Export Event Log

Additional File Utilities:  
 Import User Config File  
 Export User Config File  
 Export System Log  
 Restore Default Config  
 Software Upgrade

Config > Controller Details
<b>Controller</b>
Product Name

Additional Controller Details:  
 Control Board  
 Software Version  
 Sensor Board  
 Software Version  
 Power Board  
 Battery Power  
 Internal Temp 1  
 Internal Temp 2



# INPUTS

Inputs	
CCond (S1)	0 $\mu$ S/cm
Temp (S2)	74.7 °F
⏪ ⏩ ⏴ ⏵	

⚠ No Alarms (1)	
CCond (S1)	0 $\mu$ S/cm
Temp (S2)	74.7°F
⏪ ⏩ ⏴ ⏵	

>> CCond (S1) > Calibration	
One Point Process Calibration	
One Point Buffer Calibration	
Two Point Buffer Calibration	
Three Point Buffer Calibration	
Open Air Calibration	
Zero Calibration	
⏪ ⏩ ⏴ ⏵	

(All)  
(CCond,ECond,pH,ORP,Generic)  
(ECond,pH,ORP,Generic)  
(pH)  
(Cond)  
(Disinfection,Linear Generic)

Inputs>CCond (S1)	
Details Screen	
Content varies with output type	
⏪ ⏩ ⏴ ⏵	

>>CCond (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for CCond:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Default Temp  
Temp Compensation  
Temp Comp Factor  
Cell Constant  
Cable Length  
Gauge  
Units  
Name  
Type

>>Generic (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for Generic:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Sensor Slope  
Sensor Offset  
Low Range  
High Range  
Cable Length  
Gauge  
Units  
Electrode (Linear Ion Selective)  
Name  
Type

>>ECond (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for ECond:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Default Temp  
Installation Factor  
Range  
Temp Compensation  
Temp Comp Factor  
Cell Constant  
Cable Length  
Gauge  
Units  
Name  
Type

>>DI State (D1)	
Open Message	
Closed Message	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for DI State:

Interlock  
Alarm  
Total Time  
Reset Total Time  
Name  
Type

>>Temperature (S2)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for Temperature:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Name  
Element

Contactor Type	
>>Flowmeter (D1)	
Totalizer Alarm	
Reset Flow Total	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for Flowmeter:

Set Flow Total  
Scheduled Reset  
Volume/Contact  
Flow Units  
Name  
Type

>>pH (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for pH:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Buffers  
Default Temp  
Cable Length  
Gauge  
Electrode  
Name  
Type

Paddlewheel Type	
>>Flowmeter (D1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for Flowmeter:

Totalizer Alarm  
Reset Flow Total  
Set Flow Total  
Scheduled Reset  
K Factor  
Flow Units  
Rate Units  
Smoothing Factor  
Name  
Type

>>ORP (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for ORP:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Default Temp  
Cable Length  
Gauge  
Name  
Type

Only Available in some models

>>Disinfection (S1)	
Alarms	
Deadband	
⏪ ⏩ ⏴ ⏵	

### Additional Settings for Disinfection:

Reset Calibration Values  
Cal Required Alarm  
Alarm Suppression  
Smoothing Factor  
Cable Length  
Gauge  
Sensor  
Name  
Type



# OUTPUTS R1-R3

**Outputs>On/Off (R1)**  
Details Screen  
Content varies with output type

Outputs	
On/Off (R1)	Off
Bleed (R2)	Off

No Alarms (1)	
CCond (S1)	0 μS/cm
Temp (S2)	74.7°F

**>>On/Off (R1)>Settings**

HOA Setting

Setpoint

Additional Settings for On/OFF:

Deadband	Min Relay Cycle
Duty Cycle Period	Hand Time Limit
Duty Cycle	Reset Time Total
Output Time Limit	Input
Reset Output Timeout	Direction
Interlock Channels	Name
Activate with Channels	Mode

**>>Time Prop (R1)**

HOA Setting

Setpoint

Additional Settings for Time Prop:

Proportional Band	Hand Time Limit
Sample Period	Reset Time Total
Output Time Limit	Input
Reset Output Timeout	Direction
Interlock Channels	Name
Activate with Channels	Mode
Min Relay Cycle	

**>>Flow Timer (R1)**

HOA Setting

Feed Duration

Additional Settings for Flow Timer:

Accumulated Volume	Hand Time Limit
Reset Timer	Reset Time Total
Reset Output Timeout	Flow Input
Interlock Channels	Name
Activate with Channels	Mode
Min Relay Cycle	

*Only if HVAC mode is enabled*

**>>Int Sampling (R1)**

HOA Setting

Setpoint

Additional Settings for Int Sampling:

Proportional Band	Interlock Channels
Deadband	Activate with Channels
Sample Time	Min Relay Cycle
Hold Time	Hand Time Limit
Maximum Blowdown	Reset Time Total
Wait Time	Cond Input
Trap Sample	Name
Output Time Limit	Mode
Reset Output Timeout	

*Only if HVAC mode is enabled*

**>>Bleed and Feed (R1)**

HOA Setting

Feed Time Limit

Additional Settings for Bleed and Feed:

Output Time Limit	Hand Time Limit
Reset Output Timeout	Reset Time Total
Interlock Channels	Bleed
Activate with Channels	Name
Min Relay Cycle	Mode

**>>Manual (R1)**

HOA Setting

Interlock Channels

Additional Settings for Manual:

Min Relay Cycle	
Hand Time Limit	
Reset Time Total	
Name	
Mode	

*Only if HVAC mode is enabled*

**>>Bleed then Feed (R1)**

HOA Setting

Feed Percentage

Additional Settings for Bleed then Feed:

Feed Time Limit	Hand Time Limit
Reset Timer	Reset Time Total
Reset Output Timeout	Bleed
Interlock Channels	Name
Activate with Channels	Mode
Min Relay Cycle	

*Only if model W120/power relay bd installed*

**>>Pulse Prop (R1)**

HOA Setting

Setpoint

Additional Settings for Pulse Prop:

Proportional Band	Min Relay Cycle
Min Output	Hand Time Limit
Max Output	Reset Time Total
Max Rate	Input
Output Time Limit	Direction
Reset Output Timeout	Name
Interlock Channels	Mode
Activate with Channels	

**>>Percent Timer(R1)**

HOA Setting

Sample Period

Additional Settings for Percent Timer:

Feed Percentage	Hand Time Limit
Interlock Channels	Reset Time Total
Activate with Channels	Name
Min Relay Cycle	Mode

**>>Dual Setpoint (R1)**

HOA Setting

Setpoint

Additional Settings for Dual Setpoint:

Set Point 2	Min Relay Cycle
Deadband	Hand Time Limit
Duty Cycle Period	Reset Time Total
Duty Cycle	Input
Output Time Limit	Direction
Reset Output Timeout	Name
Interlock Channels	Mode
Activate with Channels	

*Only if HVAC mode is enabled*

**>>Biocide Timer (R1)**

HOA Setting

Bleed

Additional Settings for Biocide Timer:

Event 1 (through 10)	Bleed Lockout
Repetition	Add Last Missed
Week	Interlock Channels
Day	Activate with Channels
Start Time	Min Relay Cycle
Duration	Hand Time Limit
Preamble Time	Reset Time Total
Preamble To	Name
Cond Input	Mode

**>>Probe Wash (R1)**

HOA Setting

Input

Additional Settings for Probe Wash:

Input 2	Interlock Channels
Event 1 (through 10)	Activate with Channels
Repetition	Min Relay Cycle
Week	Hand Time Limit
Day	Reset Time Total
Events per Day	Name
Start Time	Mode
Duration	
Sensor Mode	
Hold Time	

**>>Alarm (R1)**

HOA Setting

Alarm Mode

Additional Settings for Alarm:

Output	Hand Time Limit
Interlock Channels	Reset Time Total
Activate with Channels	Name
Min Relay Cycle	Mode

*Only if HVAC mode is disabled*

**>>Timer (R1)**

HOA Setting

Add Last Missed

Additional Settings for Timer:

Event 1 (through 10)	Min Relay Cycle
Repetition	Hand Time Limit
Week	Reset Time Total
Day	Name
Events per Day	Mode
Start Time	
Duration	
Interlock Channels	
Activate with Channels	



# OUTPUT A1

**Output>Retrans (A1)**

Details on this page vary with type of output

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Output	
On/Off (R1)	Off
Retrans (A1)	0.0%
⏪ ⏩ ⏴ ⏵	

⚠️ No Alarms (1)	
CCond (S1)	0 µS/cm
Temp (S2)	74.7°F
⚠️ ⏪ ⏩ ⏴ ⏵	

**>>Retransmit (A1)**

HOA Setting

4 mA Value

⏪ ⏩ ⏴ ⏵

Additional Settings for Retransmit:

20 mA Value                      Reset Time Total  
Hand Output                      Input Name  
Interlock Channels              Mode  
Error Output

**>>Proportional (A1)**

HOA Setting

Setpoint

⏪ ⏩ ⏴ ⏵

Additional Settings for Proportional:

Proportional Band              Hand Time Limit  
Min Output                      Reset Time Total  
Max Output                      Off Mode Output  
Output Time Limit              Error Output  
Reset Output Timeout            Input Name  
Interlock Channels              Direction  
Activate with Channels            Name  
Hand Output                      Mode

Only available if HVAC is disabled

**>>PID (A1)**

HOA Setting

Setpoint

⏪ ⏩ ⏴ ⏵

Additional Settings for PID:

Gain                              Hand Output  
Proportional Gain              Hand Time Limit  
Integral Time                    Off Mode Output  
Integral Gain                    Error Output  
Derivative Time                Reset Time Total  
Derivative Gain                Input Name  
Reset PID Integral              Direction  
Min Output                      Input Min  
Max Output                      Input Max  
Max Rate                        Gain Form  
Output Time Limit              Name  
Reset Output Timeout            Mode  
Interlock Channels  
Activate with Channels

**>>Manual (A1)**

HOA Setting

Interlock Channels

⏪ ⏩ ⏴ ⏵

Additional Settings for Manual:

Activate with Channels            Name  
Min. Relay Cycle                Mode  
Hand Output  
Hand Time Limit  
Reset Time Total

**>>Flow Prop (A1)**

HOA Setting

Target

⏪ ⏩ ⏴ ⏵

Additional Settings for Flow Prop Control Mode:

Pump Capacity                  Hand Time Limit  
Pump Setting                    Off Mode Output  
Specific Gravity                Error Output  
Output Time Limit              Reset Time Total  
Reset Output Timeout            Flow Input  
Interlock Channels              Name  
Activate with Channels            Mode  
Hand Output