

MAIN MENU / HOME SCREEN OVERVIEW

INPUTS

| Home | Inputs | Outputs | Graphs | HOA | Config |
|------------------|--------|------------------|--------|-----|--------|
| Ccond (S11) | | Temp (S12) | | | |
| 1000 μS/cm | | 50.5 °F | | | |
| Cond (S13) | | Temp (S14) | | | |
| 1000 μS/cm | | 50.5 °F | | | |
| pH (S21) | | Temp (S22) | | | |
| 8.95 | | 80.1 °F | | | |
| Unassigned (S23) | | Unassigned (S24) | | | |

List of Possible Inputs

| | |
|----------------------------|--------------------------------|
| Contacting Conductivity | Flow Meter, Paddlewheel type |
| Electrodeless Conductivity | Feed Monitor |
| Temperature | Counter |
| pH | Remote Modbus DI State |
| ORP | DI Counter |
| Disinfection | Calculation Virtual Input |
| Generic | Redundant Sensor Virtual Input |
| Transmitter/AI Monitor | Raw Value Virtual Input |
| Tank Level | Disturbance Virtual Input |
| Fluorometer | Remote Modbus Virtual Input |
| Flowmeter, Analog Type | Corrosion Rate |
| DI State | Corrosion Imbalance |
| Flow Meter, Contactor type | |

OUTPUTS

| Home | Inputs | Outputs | Graphs | HOA | Config |
|--------------------|--------|-------------------|--------|-----|--------|
| On/Off (R1) | | Flow Timer (R2) | | | |
| On | | Off | | | |
| Bio Timer (R3) | | Time Prop (R4) | | | |
| Off | | Off | | | |
| Boolean Logic (R5) | | Probe Wash (R6) | | | |
| Off | | Off | | | |
| Pulse Prop (R7) | | Alarm Output (R8) | | | |
| Off | | Off | | | |

List of Possible Outputs

| | |
|---|--|
| On/Off control mode | Probe Wash control mode |
| On/Off Disturbance control mode | Spike control mode |
| Flow Timer control mode | Lag Output control mode |
| Bleed & Feed control mode | PPM Volume |
| Percent Timer control mode | Flow Meter Ratio control mode |
| Biocide Timer control mode | Volumetric Blend control mode |
| Alarm Output mode | Counter Timer |
| Time Proportional control mode | Boolean Logic |
| Pulse Proportional control mode | Dual Switch |
| Pulse Proportional Disturbance control mode | Analog Output, Retransmit mode |
| Intermittent Sampling mode | Analog Output, Proportional control mode |
| Manual control mode | Analog Output, Manual mode |
| PID control mode | Analog Output, Disturbance Mode |
| Dual Setpoint mode | |
| Timer control mode | |

ALARMS (List of Active Alarms)

| Home | Inputs | Outputs | Graphs | HOA | Config |
|--------------------------------|--------|---------|--------|-----|--------|
| Temp (S12) Sensor Fault | | | | | |
| | | | | | |
| | | | | | |

HOME SCREEN (example)

| Home | Inputs | Outputs | Graphs | HOA | Config |
|---------------|--------|--------------------|--------|-------|--------|
| Ccond (S11) | | On/Off (R1) | | On ● | |
| 1000 μS/cm | | Flow Timer (R2) | | Off ○ | |
| Temp (S12) | | Bio Timer (R3) | | Off ○ | |
| 50.5 °F | | Time Prop (R4) | | Off ○ | |
| pH (S21) | | Boolean Logic (R5) | | Off ○ | |
| 8.95 | | Probe Wash (R6) | | Off ○ | |
| Temp (S22) | | Pulse Prop (R7) | | Off ○ | |
| 80.1 °F | | Alarm Output (R8) | | Off ○ | |

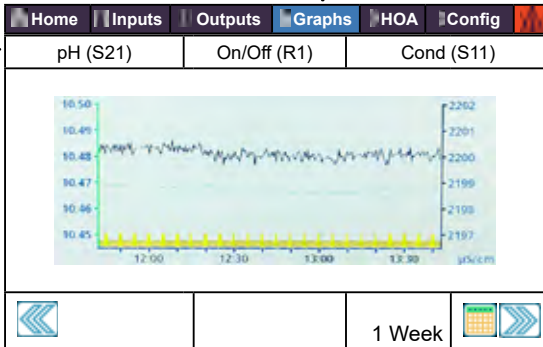
CONFIG

| Home | Inputs | Outputs | Graphs | HOA | Config |
|-----------------------|--------|--------------------|--------|-----|--------|
| Global Settings | | Security Settings | | | |
| Ethernet Settings | | Ethernet Details | | | |
| WiFi Settings | | Wifi Details | | | |
| Email Report Settings | | Display Settings | | | |
| File Utilities | | Controller Details | | | |

HOA

| Home | Inputs | Outputs | Graphs | HOA | Config |
|--------------------|--------|---------|--------|------|--------|
| On/Off (R1) | | Hand | Off | Auto | |
| Flow Timer (R2) | | Hand | Off | Auto | |
| Bio Timer (R3) | | Hand | Off | Auto | |
| Time Prop (R4) | | Hand | Off | Auto | |
| Boolean Logic (R5) | | Hand | Off | Auto | |
| Probe Wash (R6) | | Hand | Off | Auto | |

GRAPHS



Graph Settings

Left Sensor
Low Axis Limit
High Access Limit
DI / Relay

Additional Settings:
Right Sensor
Low Axis Limit
High Axis Limit
Time Range

Graph Settings

Time Range

30 Minutes
1 Hour
2 Hours
4 Hours
8 Hours

Additional Settings:

1 Day
2 1/2 Days
5 Days
1 Week
2 Weeks
4 Weeks

INPUTS

| Home | | Inputs | Outputs | Graphs | HOA | Config |
|------------------|------------------|--------|---------|--------|-----|--------|
| Ccond (S11) | Temp (S12) | 1000 | 50.5 | μS/cm | °F | |
| Cond (S13) | Temp (S14) | 1000 | 50.5 | μS/cm | °F | |
| pH (S21) | Temp (S22) | 8.95 | 80.1 | | °F | |
| Unassigned (S23) | Unassigned (S24) | | | | | |

List of Possible Inputs

- | | |
|---|--|
| <ul style="list-style-type: none"> Contacting Conductivity Electrodeless Conductivity Temperature pH ORP Disinfection Generic Transmitter/AI Monitor Tank Level Fluorometer Flowmeter, Analog Type DI State Flow Meter, Contactor type | <ul style="list-style-type: none"> Flow Meter, Paddlewheel type Feed Monitor Counter Remote Modbus DI State DI Counter Calculation Virtual Input Redundant Sensor Virtual Input Raw Value Virtual Input Disturbance Virtual Input Remote Modbus Virtual Input Corrosion Rate Corrosion Imbalance |
|---|--|

Contacting Conductivity (S11)

1000 μS/cm

Alarms
Status
Raw Value
Temperature

etc. Details Screen Content varies with sensor type

Additional Input Details:

- 24-Hour Minimum Maximum and Averages
- Calibration Gain and Offset
- Last Calibration
- Type
- Sensor Board

Contacting Conductivity (S11)

1000 μS/cm

One-Point Process Calibration
One-Point Buffer Calibration
Open Air Calibration (Conductivity inputs only)
Zero Calibration (Disinfection inputs only)

Additional Calibration Options:

- Two-Point Buffer Calibration (pH/ORP inputs only)
- Three-Point Buffer Calibration (pH/ORP inputs only)
- One-Point Analog Calibration (4-20 mA inputs only)
- Two-Point Analog Calibration (4-20 mA inputs only)

Contacting Cond (S11-43)

1000 μS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Contacting Conductivity:

- Temp Comp Factor
- Cell Constant
- Cable Length
- Gauge
- Units
- Name
- Type

Disinfection (S11-43)

2.0 ppm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Disinfection Sensor:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Cable Length
- Gauge
- Name
- Sensor Type

Electrodeless Cond (S11-43)

1000 μS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Electrodeless Conductivity:

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

Generic (S11-S43)

20.0 ppm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Generic Sensor:

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

Temperature (S11-43)

20 °C

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Name
- Element

Transmitter / AI Monitor (S11-S46)

100%

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Transmitter and AI Monitor:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Transmitter
- 4 mA Value
- 20 mA Value
- Units
- Name
- Type

pH (S11-43)

7.00

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for pH Sensor:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Buffers (pH only)
- Default Temp
- Cable Length
- Gauge
- Electrode
- Name
- Type

Tank Level (S11-S46)

55 gal

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Tank Level:

- Deadband
- Reset Calibration Values
- Alarm & Datalog Suppression
- Units
- Tank Capacity
- Empty At
- Full At
- Smoothing Factor
- Transmitter
- Name
- Type

ORP (S11-43)

500 mV

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for ORP Sensor:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Cable Length
- Gauge
- Name
- Type

Fluorometer (S11-S46)

20 ppm





LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Fluorometer:

- Deadband
- Reset Calibration Values
- Cal Required Alarm
- Alarm & Datalog Suppression
- Smoothing Factor
- Transmitter
- Max Sensor Range
- Dye / Product Ratio
- Name
- Type

INPUTS

Flowmeter (S11-S46)





5 l/min    

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Flowmeter:

| | |
|-----------------------------|---------------|
| Deadband | Transmitter |
| Reset Flow Total | Flow Units |
| Set Flow Total | Rates Units |
| Scheduled Reset | Flowmeter Max |
| Reset Calibration Valves | Input Filter |
| Cal Required Alarm | Name |
| Alarm & Datalog Suppression | Type |
| Smoothing Factor | |

Corrosion (S11-S41)





1.2 mpy    

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Corrosion:

| | |
|-----------------------------|--------------------|
| Deadband | Cal Required Alarm |
| Replace Corrosion Electrode | Smoothing Factor |
| Stabilization Time | Cycle Time |
| Electrode Alarm | Range |
| Alarm & Datalog Suppression | Units |
| Reset Calibration | Name |
| Values | Type |

Imbalance (S12-S42)

5.0    

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Imbalance:

| | |
|-----------------------------|------|
| Deadband | Name |
| Alarm & Datalog Suppression | Type |
| Reset Calibration Values | |
| Cal Required Alarm | |

DIGITAL INPUTS

VIRTUAL INPUTS

DI State (D1-D12)

No Flow

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for DI State:

Open Message
Closed Message
Interlock
Alarm
Alarm & Datalog Suppression

Total Time
Reset Time Total
Name
Type

Calculation (V1-V16)

1000 µS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Calculation:

Deadband
Input
Constant
Input 2
Constant 2
Calculation Mode
Alarm & Datalog Suppression

Low Range
High Range
Smoothing Factor
Name
Type

Contactor Type

Flowmeter (D1-D12)

100 gal

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Contactor, Flowmeter:

Totalizer Alarm
Reset Flow Total
Set Flow Total
Scheduled Reset
Alarm & Datalog Suppression

Volume/Contact
Flow Units
Name
Type

Redundant (V1-V16)

1000 µS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Redundant:

Deviation Alarm
Deadband
Alarm & Datalog Suppression
Mode

Input
Input 2
Name
Type

Paddlewheel Type

Flowmeter (D1-D12)

100 g/m

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Paddlewheel, Flowmeter:

Deadband
Alarm & Datalog Suppression
Set Flow Total
Totalizer Alarm
Reset Flow Total

K Factor
Flow Units
Rate Units
Smoothing Factor
Name
Type

Raw Value (V1-V16)

1000 µS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Raw Value:

Deadband
Alarm & Datalog Suppression
Input
Smoothing Factor
Name
Type

Feed Monitor (D1-D12)

1.0 gal

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Feed Monitor:

Totalizer Alarm
Reset Flow Total
Set Flow Total
Scheduled Reset
Total Alarm Mode
Flow Alarm Mode
Flow Alarm Delay
Flow Alarm Clear
Deadband

Reprime Time
Volume/Contact
Flow Units
Rate Units
Smoothing Factor
Output
Name
Type

Disturbance Input (V1-V16)

1000 µS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Disturbance:

Min Disturbance
Max Disturbance
Value at Min Disturbance
Value at Max Disturbance
Smoothing Factor

Disable Disturbance
Channels
Disturbance Input
Name
Type

Only if HVAC mode is disabled

DI Counter (D1-D12)

1000

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for DI Counter:

Deadband
Alarm & Datalog Suppression
Totalizer Alarm
Reset Total
Set Total
Scheduled Reset

Units
Rate Units
Units per Pulse
Smoothing Factor
Name
Type

Remote ModBus (V1-V16)

1000 µS/cm

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Remote ModBus:

Deadband
Alarm & Datalog Suppression
Low Range
High Range
Modbus Mode
Remote Device IP
Data Port
Reply Timeout

Function
Remote Register
Data Type
Update Period
Timeout Alarm Delay
Name
Units
Type

Remote Modbus (D1-D12)

Open

LoLo Alarm
Low Alarm
High Alarm
HiHi Alarm

Additional Settings for Remote Modbus:

Open Message
Closed Message
Interlock
Alarm
Modbus Mode
Remote Device IP
Data Port
Reply Timeout
Function

Remote Register
Data Type
Update Period
Timeout Alarm Delay
Total Time
Reset Time Total
Alarm Suppression
Name
Type

OUTPUTS



| Home | Inputs | Outputs | Graphs | HOA | Config |
|--------------------|--------|-------------------|--------|-----|--------|
| On/Off (R1) | | Flow Timer (R2) | | | |
| On | | Off | | | |
| Bio Timer (R3) | | Time Prop (R4) | | | |
| Off | | Off | | | |
| Boolean Logic (R5) | | Probe Wash (R6) | | | |
| Off | | Off | | | |
| Pulse Prop (R7) | | Alarm Output (R8) | | | |
| Off | | Off | | | |

List of Possible Outputs

On/Off control mode
 On/Off Disturbance control mode
 Flow Timer control mode
 Bleed & Feed control mode
 Percent Timer control mode
 Biocide Timer control mode
 Alarm Output mode
 Time Proportional control mode
 Pulse Mass Balance
 Pulse Proportional control mode
 Pulse Proportional Disturbance control mode
 Intermittent Sampling mode
 Manual control mode
 PID control mode
 Dual Setpoint mode

Timer control mode
 Probe Wash control mode
 Spike control mode
 Lag Output control mode
 Mass Balance PPM Volume
 Flow Meter Ratio control mode
 Volumetric Blend control mode
 Counter Timer
 Boolean Logic
 Dual Switch
 Analog Output, Retransmit mode
 Analog Output, Proportional control mode
 Analog Output, Manual mode
 Analog Output, Disturbance Mode

On/Off (R1)

Off  

Status
 Time On
 24 hour time
 Total Time



etc. Details Screen Content varies with output type

Additional Input Details:

Alarms
 Input Value
 Mode
 Relay Type

RELAY OUTPUTS & VIRTUAL (CONTROL) OUTPUTS

On/Off (R1-R8)



Off  

HOA Setting
 Setpoint
 Deadband
 Duty Cycle Period

Additional settings for On/Off Mode:

| | |
|----------------------|------------------------|
| Duty Cycle | Activate with Channels |
| On Delay Time | Minimum Relay Cycle |
| Off Delay Time | Hand Time Limit |
| Daily Max Time | Reset Time Total |
| Output Time Limit | Input |
| Reset Output Timeout | Direction |
| Interlock Channels | Name |
| | Mode |

Flow Timer (R1-R8)

Off  

HOA Setting
 Feed Duration
 Accumulated Volume
 Reset Timer



Additional Settings for Flow Timer Mode:

| | |
|------------------------|------------------|
| Daily Max Time | Hand Time Limit |
| Output Time Limit | Reset Time Total |
| Reset Output Timeout | Flow Input |
| Interlock Channels | Flow Input 2 |
| Activate with Channels | Name |
| Minimum Relay Cycle | Mode |

RELAY OUTPUTS & VIRTUAL (CONTROL) OUTPUTS

Only if HVAC mode is enabled

Bleed & Feed (R1-R12, C1-C16)

Off  

HOA Setting
Feed Time Limit
Daily Max Time
Reset Output Timeout

Swipe to additional settings for Bleed & Feed Mode:

| | |
|------------------------|------------------|
| Interlock Channels | Reset Time Total |
| Activate with Channels | Bleed Name |
| Minimum Relay Cycle | Mode |
| Hand Time Limit | |

Not available for virtual outputs

Lag Control (R1-R12)

Off

HOA Setting
Lead
Wear Leveling*
Wear Cycle Time*



Additional settings for Lag Control Mode:

| | |
|----------------------|------------------------|
| Activation Mode* | Activate with Channels |
| Set Point | Min Relay Cycle |
| Set Point 2 | Hand Time Limit |
| Deadband | Reset Time Total |
| Delay Time* | Name |
| Output Time Limit | Mode |
| Reset Output Timeout | |
| Interlock Channels | |

* See section 5.3.18

Only if HVAC mode is enabled

Bleed then Feed (R1-R12, C1-C16)

Of  

HOA Setting
Feed Percentage
Feed Time Limit
Reset Timer

Additional settings for Bleed then Feed Mode:

| | |
|------------------------|------------------|
| Daily Max Time | Hand Time Limit |
| Output Time Limit | Reset Time Total |
| Reset Output Timeout | Bleed Name |
| Interlock Channels | Mode |
| Activate with Channels | |
| Minimum Relay Cycle | |

Target PPM (R1-R12, C1-C16)



Off

HOA Setting
Target
Pump Capacity
Pump Setting

Additional settings for Target PPM Control Mode:

| | |
|------------------------|------------------|
| Specific Gravity | Min Relay Cycle |
| Accumulator Volume | Hand Time Limit |
| Reset Timer | Reset Time Total |
| Daily Max Time | Flow Input |
| Output Time Limit | Flow Input 2 |
| Reset Output Timeout | Cycles Input |
| Interlock Channels | Low Cycles Limit |
| Activate with Channels | Name |
| | Mode |

Percent Timer (R1-R12, C1-C16)



Off  

HOA Setting
Sample Period
Feed Percentage
Output Time Limit

Additional settings for Percent Timer Mode:

| | |
|------------------------|------------------|
| Reset Output Timeout | Hand Time Limit |
| Interlock Channels | Reset Time Total |
| Activate with Channels | Name |
| Minimum Relay Cycle | Mode |

PPM Volume (R1-R12)

Off  



HOA Setting
Target
Specific Gravity
Accumulator Volume

Additional settings for PPM Volume Mode:

| | |
|------------------------|------------------|
| Reset Timer | Reset Time Total |
| Daily Max Time | Flow Input |
| Output Time Limit | Flow Input 2 |
| Reset Output Timeout | Cycles Input |
| Interlock Channels | Low Cycles Limit |
| Activate with Channels | Name |
| Minimum Relay Cycle | Mode |
| Hand Time Limit | |

Only if HVAC mode is enabled

Biocide Timer (R1-R12, C1-C16)



Off  

HOA Setting
Event 1 (through 10)
Repetition
Week
Day
Start Time
Duration

Additional settings for Biocide Timer Mode:

| | |
|--------------------|------------------------|
| Bleed | Activate with Channels |
| Prebleed Time | Minimum Relay Cycle |
| Prebleed To | Hand Time Limit |
| Cond Input | Reset Time Total |
| Bleed Lockout | Name |
| Add Last Missed | Mode |
| Interlock Channels | |

Flow Prop (R1-R12, C1-C16)

Off  

HOA Setting
Target
Pump Capacity
Pump Setting

Additional settings for Flow Prop Control Mode:

| | |
|------------------------|------------------|
| Specific Gravity | Reset Time Total |
| Maximum Rate | Flow Input |
| Output Time Limit | Cycles Input |
| Reset Output Timeout | Low Cycles Limit |
| Interlock Channels | Name |
| Activate with Channels | Mode |
| Hand Time Limit | |

Alarm (R1-R12, C1-C16)



Off  

HOA Setting
Alarm Mode
On Delay Time
Off Delay Time

Additional settings for Alarm Mode:

| | |
|------------------------|------------------|
| Select Alarms | Hand Time Limit |
| Output | Reset Time Total |
| Interlock Channels | Name |
| Activate with Channels | Mode |
| Minimum Relay Cycle | |

Counter Timer (R1-R12, C1-C16)



Off  

HOA Setting
Feed Duration
Accumulator Setpoint
Reset Time

Additional settings for Counter Timer Mode:

| | |
|------------------------|------------------|
| Daily Max Time | Hand Time Limit |
| Output Time Limit | Reset Time Total |
| Reset Output Timeout | Input |
| Interlock Channels | Name |
| Activate with Channels | Mode |
| Minimum Relay Cycle | |

Time Prop (R1-R12, C1-C16)



Off  

HOA Setting
Set Point
Proportional Band
Sample Period

Additional settings for Time Prop Mode:

| | |
|------------------------|------------------|
| Daily Max Time | Hand Time Limit |
| Output Time Limit | Reset Time Total |
| Reset Output Timeout | Input |
| Interlock Channels | Direction |
| Activate with Channels | Name |
| Minimum Relay Cycle | Mode |

Boolean Logic (R1-R12, C1-C16)

Off  



HOA Setting
Operation
Input 1
Activate

Additional settings for Boolean Logic Mode:

| | |
|----------------------|------------------------|
| Input 2 | Interlock Channels |
| Activate | Activate with Channels |
| On Delay Time | Hand Time Limit |
| Off Delay Time | Min Relay Cycle |
| Daily Max Time | Reset Time Total |
| Output Time Limit | Name |
| Reset Output Timeout | Mode |
| Alarm | |

Only if HVAC mode is enabled

Int. Sampling (R1-R12, C1-C16)



Off  

HOA Setting
Set Point
Proportional Band
Deadband

Additional settings for Intermittent Sampling Mode:

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

On/Off Dis (R1-R12, C1-C16)

Off  



HOA Setting
Setpoint
Deadband
Duty Cycle Period

Additional settings for On/Off Disturbance Mode:

| | |
|------------------------|---------------------|
| Duty Cycle | Minimum Relay Cycle |
| On Delay Time | Hand Time Limit |
| Off Delay Time | Reset Time Total |
| Daily Max Time | Input |
| Output Time Limit | Direction |
| Reset Output Timeout | Disturbance Input |
| Interlock Channels | Name |
| Activate with Channels | Mode |

RELAY OUTPUTS & VIRTUAL (CONTROL) OUTPUTS

Manual (R1-R12, C1-C16)



Off  

HOA Setting
On Delay Time
Off Delay Time
Output Time Limit

Additional settings for Manual Mode:
Reset Output Timeout
Interlock Channels
Minimum Relay Cycle
Hand Time Limit
Reset Time Total

Name
Mode

Spike Control (R1-R12, C1-C16)

Off  



HOA Setting
Set point
Spike Setpoint
Deadband

Additional settings for Spike Control Mode:
Onset Time
Duty Cycle Period
Duty Cycle
Event 1 (through 6)
Repetition
Week
Day
Start Time
Duration
Daily Max Time
Output Time Limit

Reset Output Timeout
Interlock Channels
Activate With Channels
Min Relay Cycle
Hand Time Limit
Reset Time Total
Input
Direction
Name
Mode

Only if Pulse Relay Type

Pulse Prop (R1-R12, C1-C16)



Off  

HOA Setting
Set Point
Proportional Band
Minimum/Maximum Output

Additional settings for Pulse Prop Mode:
Maximum Rate
Interlock Channels
Activate with Channels
Minimum Relay Cycle
Hand Time Limit

Reset Time Total
Input
Direction
Name
Mod

Vol Blend (R1-R8)

Off  



HOA Setting
Accumulator Volume
Blend Volume
Reset Timer

Additional settings for Vol Blend Mode:
Daily Max Time
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels
Minimum Relay Cycle

Hand Time Limit
Reset Time Total
Flow Input
Disturbance Input
Name
Mode

Only if HVAC mode is disabled | Only if Pulse Relay Type

PID Control (R1-R12, C1-C16)



Off  

HOA Setting
Set Point
Gain
Proportional Band

Additional settings for PID Control Mode:
Integral Time
Integral Gain
Derivative Time
Derivative Gain
Reset PID Integral
Minimum Output
Maximum Output
Maximum Rate
Input
Direction
Input Minimum

Input Maximum
Gain Form
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels
Minimum Relay Cycle
Hand Time Limit
Reset Time Total
Name
Mode

Flow Meter Ratio (R1-R8)



Off  

HOA Setting
Accumulator Volume
Bleed Volume
Reset Timer

Additional settings for Flow Meter Ratio:
Daily Max Time
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels
Minimum Relay Cycle
Hand Time Limit
Reset Time Total

Makeup Meter
Makeup Meter 2
Bleed Meter
Bleed Meter 2
Disturbance Input
Name
Mode

Dual Setpoint (R1-R12, C1-C16)

Off  



HOA Setting
Set Point
Set Point 2
Deadband

Additional settings for Dual Setpoint Mode:
Duty Cycle Period
Duty Cycle
On Delay Time
Off Delay Time
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels

Minimum Relay Cycle
Hand Time Limit
Reset Time Total
Input
Direction
Name
Mode

Only if Pulse Relay type

Disturbance (R1-R8)

Off  



HOA Setting
Reset Time Total
Output Time Limit
Reset Output Timeout

Additional settings for Disturbance:
Min Output
Max Output
Interlock Channels
Activate with Channels
Hand Output
Hand Time Limit
Max Rate

Primary Output
Disturbance Input
Trigger Input
Activated
Trigger Mode
Name
Mode

Only if HVAC mode is disabled

Timer Control (R1-R12, C1-C16)



Off  

HOA Setting
Event 1 (through 10)
Repetition
Hourly

Additional settings for Timer Control Mode:
Week
Day
Events Per Day
Start Time
Duration
Add Last Missed
Output Time Limit
Reset Output Timeout

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

Dual Switch (R1-R8)



Off  

HOA Setting
On Switch
Activate On
On Delay Time

Additional settings for Dual Switch Mode:
Off Switch
Activate O
Off Delay Time
Hand Time Limit
Daily Max Time
Output Time Limit
Reset Output Timeout

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

Probe Wash (R1-R12, C1-C16)

Off  

HOA Setting
Event 1 (through 10)
Repetition
Hourly



Additional settings for Probe Wash Mode:
Week
Day
Events Per Day
Start Time
Duration
Input
Input 2
Sensor Mode

Hold Time
Interlock Channels
Activate with Channels
Minimum Relay Cycle
Hand Time Limit
Reset Time Total
Name
Mode

ANALOG OUTPUTS & VIRTUAL (CONTROL) OUTPUTS

Not available for virtual outputs

Retransmit (A11-A44, C1-C16)



Off  

HOA Setting
4 mA Value
20 mA Value
Hand Output

Additional settings for Retransmit Mode:

Error Output
Reset Time Total
Input
Name
Mode

Prop Control (A11-A44, C1-C16)

Off  



HOA Setting
Set Point
Proportional Band
Min Output

Additional settings for Proportional Control Mode:

Max Output
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels
Hand Output
Hand Time Limit
Reset Time

Total
Off Mode Output
Error Output
Input
Direction
Name
Mode

PID Control (A11-A44, C1-C16)

Off  



HOA Setting
Set Point
Gain
Proportional Gain

Additional settings for PID Control Mode:

Integral Time
Integral Gain
Derivative Time
Derivative Gain
Reset PID Integral
Min Output
Max Output
Max Rate
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels

Hand Output
Hand Time Limit
O Mode Output
Error Output
Reset Time Total
Input
Direction
Input Minimum
Input Maximum
Gain Form
Name
Mode

Disturbance (A11-A44, C1-C16)

Off  

HOA Setting
Reset Time Total
Output Time Limit
Reset Output Timeout



Additional settings for Disturbance:

Min Output
Max Output
Interlock Channels
Activate with Channels
Hand Output
Hand Time Limit
Off Mode Output
Error Output

Primary Output
Disturbance Input
Trigger Input
Activated
Trigger Mode
Name
Mode

Not available for virtual outputs

Manual Control (A11-A44)



Off  

HOA Setting
Interlock Channels
Activate with Channels
Minimum Relay Cycle

Additional settings for Manual Control Mode:

Hand Time Limit
Reset Time Total
Name
Mode

Flow Prop (A11-A44, C1-C16)

Off  

HOA Setting
Target
Pump Rating
Pump Setting



Additional settings for Flow Prop Control Mode:

Specific Gravity
Output Time Limit
Reset Output Timeout
Interlock Channels
Activate with Channels
Hand Output
Hand Time Limit
Off Mode Output

Error Output
Reset Time Total
Flow Input
Cycles Input
Low Cycles Limit
Name
Mode

Not available for virtual outputs

Lag Output (A11-A44)

Off  

HOA Setting
Lead
Reset Time Total
Output Time Limit

Additional settings for Lag Output Mode:

Reset Output Timeout
Wear Leveling
Wear Cycle Time
Name
Mode

CONFIG MENU

| | | | | | |
|-----------------------|--------------------|---------|--------|-----|--------|
| Home | Inputs | Outputs | Graphs | HOA | Config |
| Global Settings | Security Settings | | | | |
| Ethernet Settings | Ethernet Details | | | | |
| WiFi Settings | Wifi Details | | | | |
| Email Report Settings | Display Settings | | | | |
| File Utilities | Controller Details | | | | |

Global Settings

Date
Time
Name
Location

Swipe to additional settings for Global Settings:

Global Units
Temperature Units
Alarm Delay
HVAC Modes
Language

Display Settings

Edit Home Screen Layout
Splash Protection
Activate Splash Protection
Adjust Display

Swipe to additional settings for Display Settings:

Auto Dim Time
Key Beep

Security Settings

Controller Log Out
Security
Local Password

Ethernet Settings

DHCP Setting
Controller IP Address
Network Netmask
Network Gateway

Swipe for additional settings for Ethernet Settings:

DNS Server
Web Page Color Scheme
Fluent Alarm Scheme
TCP Timeout
Fluent Status
LiveConnect Status
Update Period
Reply Timeout

Ethernet Details

Alarms
DHCP Status
Controller IP Address
Network Netmask

Swipe for additional settings for Ethernet Details:

Network Gateway
DNS Server
MAC Address
Last Fluent Data
Last Fluent Config

WiFi Settings

WiFi Mode
SSID
Key
Gateway Connection

Swipe for additional settings for WiFi Settings:

DHCP Setting
Controller IP Address
Network Netmask
Network Gateway
DNS Server
Ad-Hoc SSID
Ad-Hoc Security
Ad-Hoc Key
SSID Broadcast
TCP Timeout
Temporary Ad-Hoc
Begin/End Temporary
Ad-Hoc Mode
Ad-Hoc Time Limit

WiFi Details

Alarms
Last Fluent Data
Last Fluent Config
Live Connect Status

Swipe for additional settings for WiFi Details:

WiFi Status
Signal Strength
RSSI
WiFi Channel
DHCP Status
Controller IP
Address
Network Netmask
Network Gateway
Security Protocol
DNS Server
BSSID/MAC
Address
FCC ID
IC ID

Remote Communications

Comm Status
Data Format
Data Port
Verbose Logging

Swipe for additional settings for Remote Communications:

Device ID
Network

File Utilities

File Transfer Status
Data Log Export
Periodic Log Export
Export Event Log

Swipe for additional settings for File Utilities:

Export System Log
Export User Config File
Import User Config File
Repair Network File System
Restore Default Config
Software Upgrade

Controller Details

Controller
Product Name
Serial Number
Last Data Log

Swipe for additional settings for Controller Details:

Software Version
Power Board
Relay Board #1-3
Sensor Board #1
Software Version
Sensor Board #2
Software Version
Sensor Board #3
Software Version
Sensor Board #4
Software Version
Last Data Log
Digital Inputs
Software Version
Auxiliary Power Board
Network
WiFi Board
Software Version
Auxiliary Power Board
Battery Power
Processor Temp
Controller Temp 1
Controller Temp 2
Relay Board Temp
Network Temp
Processor Temp
I/O Card 1 Temp
I/O Card 2 Temp
I/O Card 3 Temp
I/O Card 4 Temp
Network Temp
DI Temp
+12 Volt Supply
+5 Volt Supply
+3.3 Volt Supply
LCD Bias Voltage
LCD Supply

Email Report Settings

Report #1 through #4
Email Addresses
Email Server
SMTP Server

Swipe for additional settings for Email Report Settings:

SMTP Port
From Address
ASMTMP Username
ASMTMP Password
Test Report Recipients
Send Email Test Report
Report #1-4 Settings:
Report Type
Email Recipients
Repetition (Datalog/Summary Reports/Graph)
Reports Per Day (Datalog/Summary Reports/Graph)
Day (Datalog/Summary Reports/Graph)
Day of Month (Datalog/Summary Reports/Graph)
Report Time (Datalog/Summary Reports/Graph)
Log Frequency (Datalog Report)
Alarm Mode (Alarms Report)
Select Alarms (Alarms Report)
Alarm Delay (Alarms Report)
Attach Summary (Alarms Report)