

MAIN MENU/HOME SCREEN OVERVIEW

Inputs	
Sensor (S11)	3038 $\mu\text{S/cm}$
Temp (S12)	77.1°F
Generic AI (S21)	30.5%
Generic AI (S22)	37.9%

List of possible Inputs:
 Contacting Conductivity
 Electrodeless Conductivity
 Temperature
 pH
 ORP
 Disinfection
 Generic
 Transmitter/AI Monitor
 DI State
 Flow Meter, Contactor type
 Flow Meter, Paddlewheel type
 Feed Monitor
 Virtual Input – Calculation
 Virtual Input – Raw Value

HOME SCREEN (example)	
Flowswitch (D1) No Flow	
CCond (S11)	3041 $\mu\text{S/cm}$
Temp (S12)	77.0°F
Flowswitch (D1)	No Flow

Config	
Global Settings	
Security Settings	
Network Settings	
Network Details	

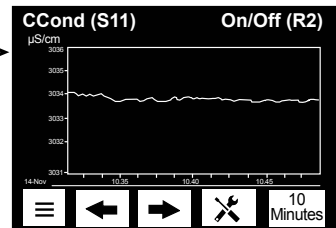
Additional Config Settings:
 Remote Communications (Modbus)
 Email Report Settings
 Display Settings
 File Utilities
 Controller Details

MAIN MENU		
Main Menu	09:19:01	14-Mar-2017
Inputs	Config	
Outputs	HOA	
Alarm	Graph	
To HOME SCREEN		

> HOA		
R1	R2	R3
R4	R5	R6
Hand	Off	Auto

Outputs	
On/Off (R1)	Off
Flow Timer (R2)	Off
Flow Timer (R3)	Off
Manual (R4)	Off

List of possible Outputs:
 On/Off control mode
 Flow Timer control mode
 Percent Timer control mode
 Alarm Output mode
 Time Proportional control mode
 Manual control mode
 Pulse Proportional control mode
 PID control mode
 Dual Setpoint mode
 Timer control mode
 Probe Wash control mode
 Spike control mode
 Lag Output control mode
 Analog Output, Retransmit mode
 Analog Output, Proportional control mode
 Analog Output, PID control mode
 Analog Output, Manual mode
 Analog Output, Flow Proportional mode



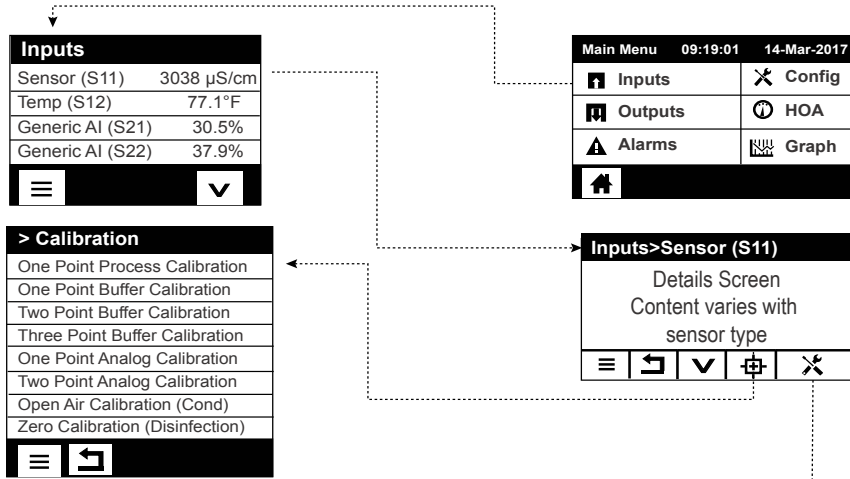
Graph Settings	
Sensor	
DI Relay	
Low Axis Limit	
High Axis Limit	

Additional Graph Settings:
 Time Range

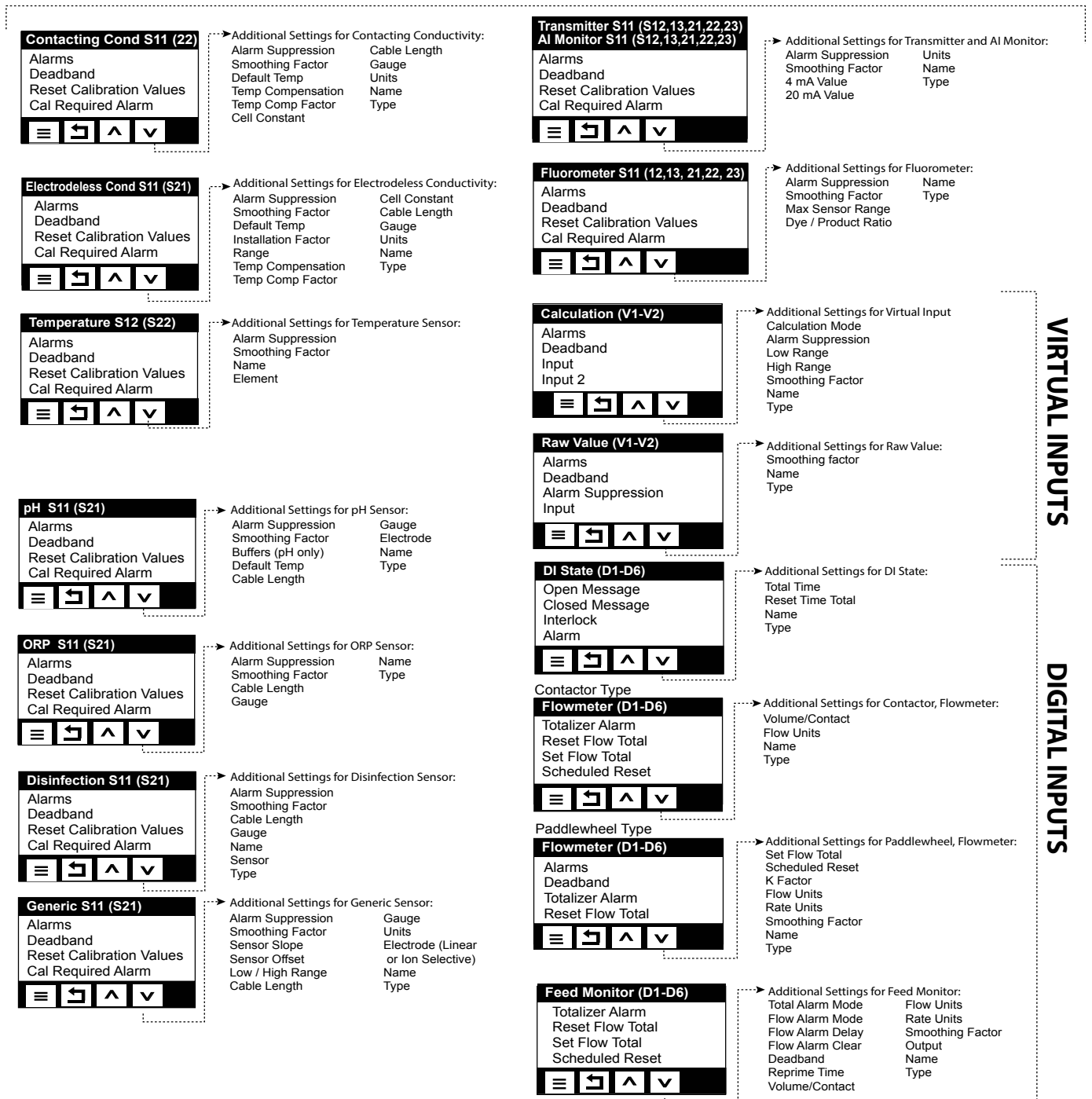
Time Range	
10 Minutes	
30 Minutes	
1 Hour	
2½ Hours	

More possible settings:
 8 Hours
 12 Hours
 1 Day
 ½ Week
 1 Week
 2 Weeks
 4 Weeks

Alarms	
List of all Active Alarms	



INPUTS



Outputs	
On/Off (R1)	Off
Inhibitor (R2)	Off
Flow Timer (R3)	Off
Manual (R4)	Off

Main Menu 09:19:01 14-Mar-2017	
Inputs	Config
Outputs	HOA
Alarms	Graph

Outputs>On/Off (R1)

Details Screen
Content varies with output type

On/Off (R1-R6)

HOA Setting
Set Point
Deadband
Duty Cycle Period

Additional Settings for On/OFF Mode:

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

Flow Timer (R1-R6)

HOA Setting
Feed Duration
Accumulated Volume
Output Time Limit

Additional Settings for Flow Timer Mode:

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

Only if HVAC mode is enabled

Bleed & Feed (R1-R6)

HOA Setting
Feed Time Limit
Output Time Limit
Reset Output Timeout

Additional Settings for Bleed & Feed Mode:

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

Only if HVAC mode is enabled

Bleed then Feed (R1-R6)

HOA Setting
Feed Percentage
Feed Time Limit
Reset Timer

Additional Settings for Bleed then Feed Mode:

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

Percent Timer (R1-R6)

HOA Setting
Sample Period
Feed Percentage
Output Time Limit

Additional Settings for Percent Timer Mode:

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

Only if HVAC mode is enabled

Biocide Timer (R1-R6)

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	

Alarm (R1-R6)

HOA Setting
Alarm Mode
Select Alarms
Output

Additional Settings for Alarm Mode:

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

Time Prop (R1-R6)

HOA Setting
Set Point
Proportional Band
Sample Period

Additional Settings for Time Prop Mode:

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

OUTPUTS (RELAYS R1-R6)

Only if HVAC mode is enabled

Int. Sampling (R1-R6)

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	

Manual (R1-R16)

HOA Setting
On Delay Time
Off Delay Time
Output Time Limit

Additional Settings for Manual Mode:

Reset Output Timeout	Name
Interlock Channels	Mode
Minimum Relay Cycle	
Hand Time Limit	
Reset Time Total	

Pulse Prop (R1-R6)

HOA Setting
Set Point
Proportional Band
Minimum/Maximum Output

Additional Settings for Pulse Prop Mode:

Maximum Rate	Input
Interlock Channels	Direction
Activate with Channels	Name
Minimum Relay Cycle	Mode
Hand Time Limit	
Reset Time Total	

Only if HVAC mode is disabled

PID Control (R1-R6)

HOA Setting
Set Point
Gain
Proportional Gain

Additional Settings for PID Control Mode:

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

Dual Setpoint (R1-R6)

HOA Setting
Set Point
Set Point 2
Deadband

Additional Settings for Dual Setpoint Mode:

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

Only if HVAC mode is disabled

Timer Control (R1-R6)

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

Additional Settings for Timer Control Mode:

Add Last Missed	Reset Time Total
Output Time Limit	Name
Reset Output Timeout	Mode
Interlock Channels	
Activate with Channels	
Minimum Relay Cycle	
Hand Time Limit	

Probe Wash (R1-R6)

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

Additional Settings for Probe Wash Mode:

Input	Hand Time Limit
Input 2	Reset Time Total
Sensor Mode	Name
Hold Time	Mode
Interlock Channels	
Activate with Channels	
Minimum Relay Cycle	

Spike Control (R1-R6)

HOA Setting
Set point
Spike Set point
Deadband

Additional Settings for Spike Control Mode:

Duty Cycle Period	Direction
Duty Cycle	Interlock Channels
Event 1 (through 8)	Activate with Channels
Repetition	Minimum Relay Cycle
Week	Hand Time Limit
Day	Reset Time Total
Start Time	Name
Duration	Mode
Input	

Lag Control (R1-R6)

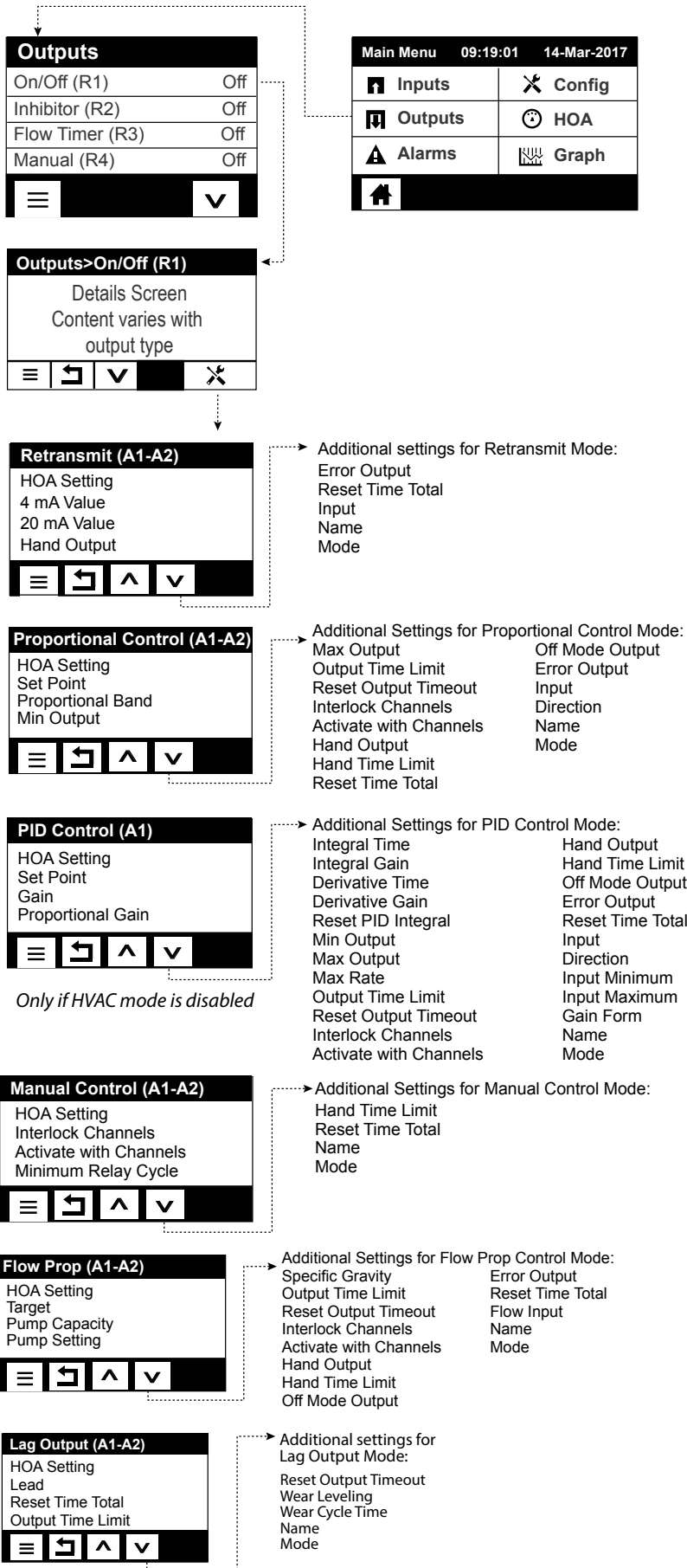
HOA Setting
Lead
Wear Leveling*
Wear Cycle Time*

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

OUTPUTS (ANALOG A1-A2)



CONFIG MENU

HOME SCREEN (example)

⚠ Flowswitch (D1) No Flow	
CCond (S11)	3041 μS/cm
Temp (S12)	77.0°F
Flowswitch (D1)	No Flow
☰	

Main Menu 09:19:01 14-Mar-2017	
🏠 Inputs	✂ Config
🏠 Outputs	🕒 HOA
⚠ Alarms	📊 Graph
🏠	

Config	
Global Settings	
Security Settings	
Network Settings	
Network Details	
☰	∨

Additional Config Settings:
 Remote Communications (Modbus)
 Email Report Settings
 Display Settings
 File Utilities
 Controller Details

Global Settings	
Date	
Time	
Name	
Location	
☰	∨

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

Security Settings	
Controller Log Out	
Security	
Local Password	
☰	∨

Network Settings	
DHCP Setting	
Controller IP Address	
Network Netmask	
Network Gateway	
☰	∨

Additional Network Settings:
 DNS Server
 TCP Timeout
 VTouch Status
 LiveConnect Status
 Update Period
 Reply Timeout

Network Details	
Alarms	
DHCP Status	
Controller IP Address	
Network Netmask	
☰	∨

Additional Network Details:
 Network Gateway
 DNS Server
 MAC Address
 Last VTouch Data
 Last VTouch Config

Remote Communications	
Comm Status	
Data Format	
Data Port	
Verbose Logging	
☰	∨

Email Report Settings	
Report #1 through #4	
Email Addresses	
Email Server	
SMTP Server	
☰	∨

Report #1-4 Settings:
 Report Type
 Email Recipients
 Repetition (Datalog/Summary Reports)
 Reports Per Day (Datalog/Summary Reports)
 Day (Datalog/Summary Reports)
 Day of Month (Datalog/Summary Reports)
 Report Time (Datalog/Summary Reports)
 Log Frequency (Datalog Report)
 Alarm Mode (Alarms Report)
 Select Alarms (Alarms Report)
 Alarm Delay (Alarms Report)

Additional Email Report Settings:
 SMTP Port
 From Address
 ASMTX Username
 ASMTX Password

Display Settings	
Home 1	
Home 2	
Home 3	
Home 4	
☰	∨

Additional Display Settings:
 Home 5
 Home 6
 Home 7
 Home 8
 Adjust Display
 Key Beep
 Auto Dim Time

File Utilities	
File Transfer Status	
Data Log Range	
Log Frequency	
Export Data Log File	
☰	∨

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

Controller Details	
Controller	
Product Name	
Serial Number	
Controller Board	
☰	∨

Additional Controller Details:
 Software Version
 Power Board
 Sensor Board #1
 Software Version
 Sensor Board #2
 Software Version
 Network Board
 Software Version
 AO Board
 Last Data Log
 Battery Power
 Internal Temp 1
 Internal Temp 2
 Internal Temp 3
 Internal Temp 4
 +5 Volt Supply
 +3.3 Volt Supply
 LCD Bias Voltage
 LCD Supply