



www.accu-dose.com

Table of Contents

INSTALLATION

- Pg.3 Mounting
- **Pg.4** RMC-1000/2000 Wiring Diagram Digital Inputs/Outputs
- **Pg.5** RMC-1000/2000 Wiring Diagram Analog Inputs
- **Pg.6** RMC-2000i Wiring Diagram Digital and Analog Inputs
- **Pg.7** Analog Isolator Wiring Diagram

SETUP

- **Pg.8** Apple and Android APP
- **Pg.9** Local Access User Interface
- **Pg.10** Connecting to the Server and User Interface
- Pg.11 Main User Dashboard
- **Pg.12** Manage Profile and User Information
- **Pg.13-16** Manage Sites

USER INTERFACE

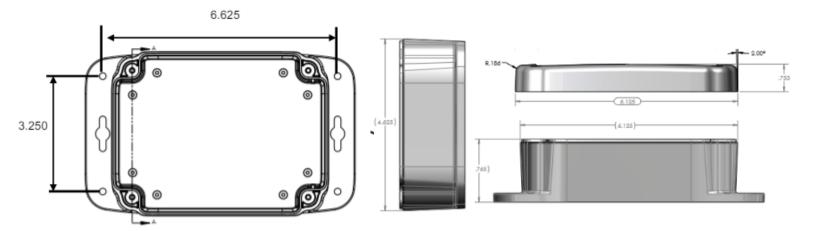
- **Pg.17** Datapoints
- Pg.18 Events
- **Pg.19** Controller List
- **Pg.20** User Interface Main Screen

DEVICE SETUP

- **Pg.21** User Interface Device Setup
- **Pg.22** Analog Input Configuration
- **Pg.23** Digital Input Configuration
- **Pg.24** Digital Output Configuration
- **Pg.25** Digital Output Configuration 2



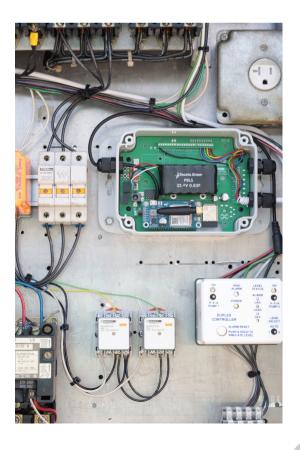
MOUNTING

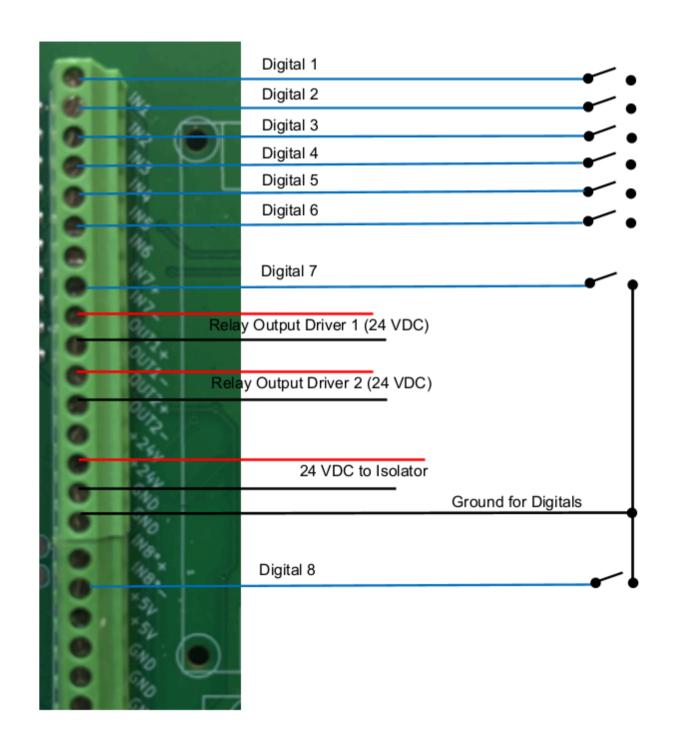


MECHANICAL INSTALLATION:

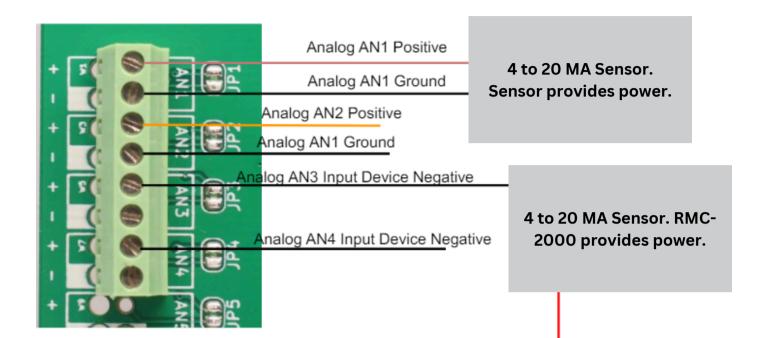
Select suitable location as close to the control panel or location of the digital and analog IO points. Mount the controller using the predrilled four screw holes in each corner. The controller can be mounted inside of an existing panel or outside on the side of the panel or any available mounting space. The controller is weather proof.







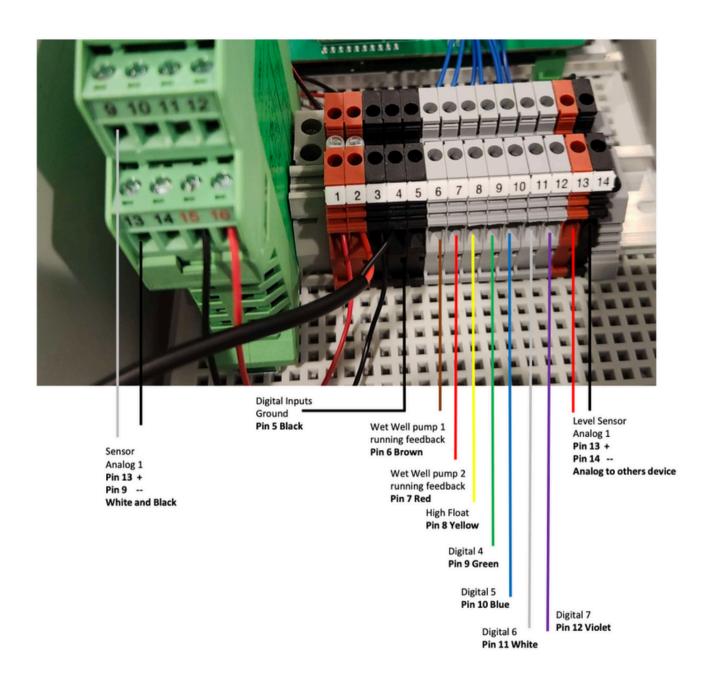
WIRING DIAGRAM ANALOG INPUTS



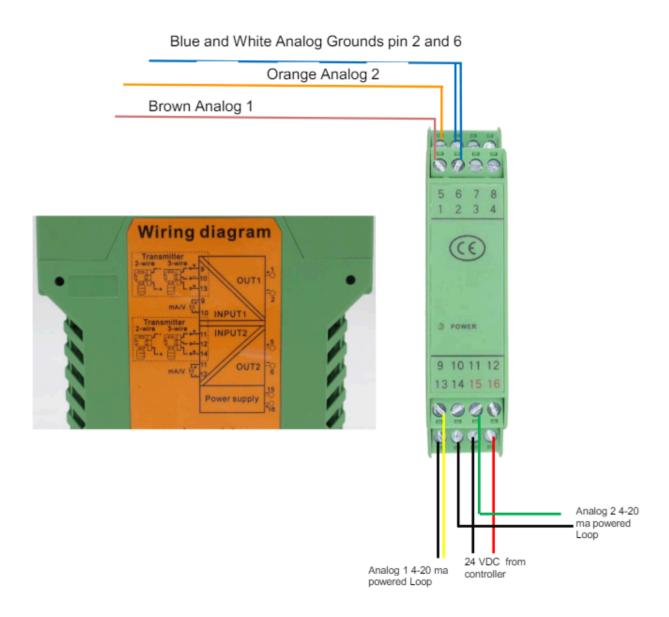


Analog AN3 Input Sensor 24 VDC

WIRING DIAGRAM ANALOG ISOLATOR



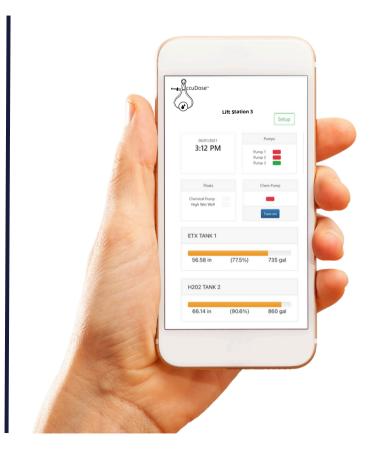
WIRING DIAGRAM ANALOG ISOLATOR



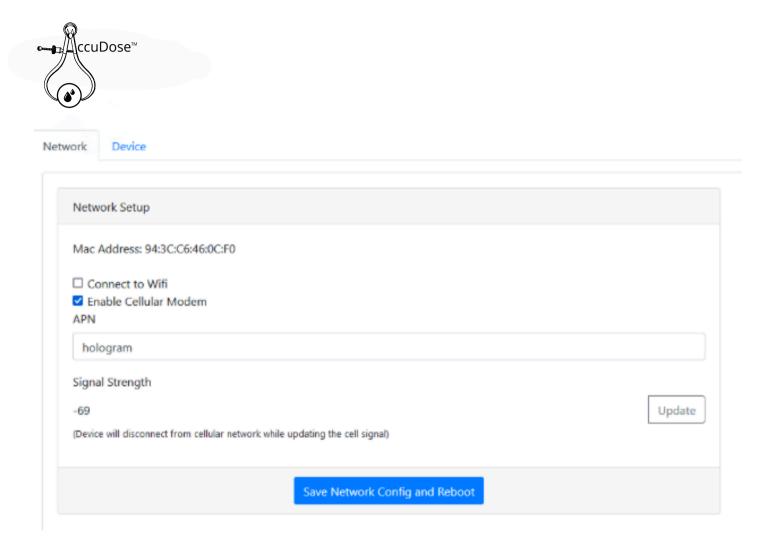
APPLE AND ANDROID APP

- Download the APP from our website.
- Connect to the local RMC WIFI network from network list. (See image below.)
- Select the AccuDose icon.
- The APP will open up and there will be two selections available. The "Connect" button will connect you directly to the server and the cloud based user interface.
- The Setup button will connect you directly to the local user interface.
- Note: the smart device must be connected to the "RMC-2000" network in the WIFI network selection to connect directly to local access point.



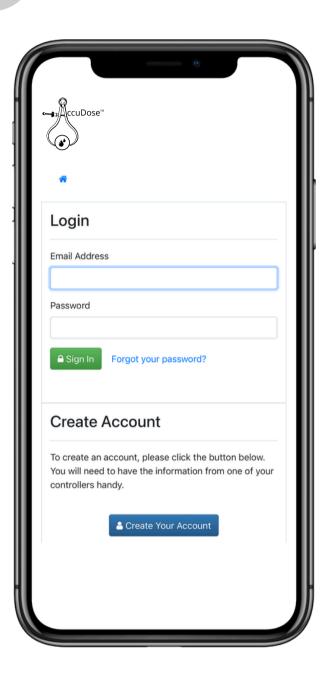


LOCAL ACCESS USER INTERFACE



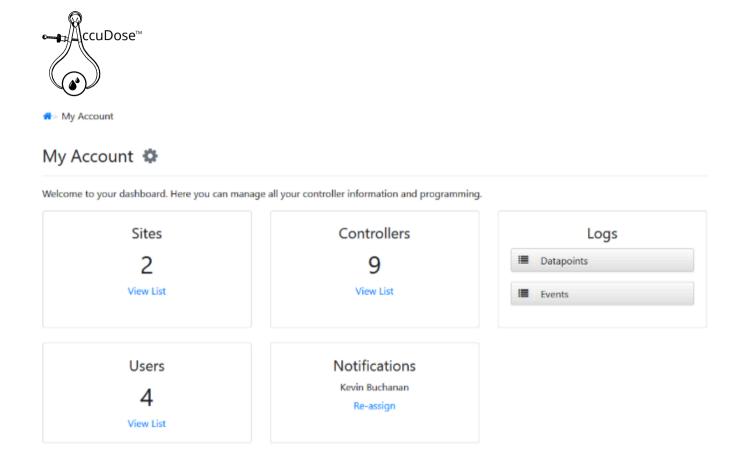
- Mac Address: The electronic serial number of the device.
- Connect to Wifi: Check this box to connect device through the local Wifi network.
- Enable Cellular Modem: Check this box to connect device through Cellular.
- APN: the Cellular carrier APN address.
- Signal Strength: The signal strength of the Cellular connection to the tower.
- Save Network Config and Reboot: Save revised settings.

CONNECTING TO THE SERVER AND USER INTERFACE



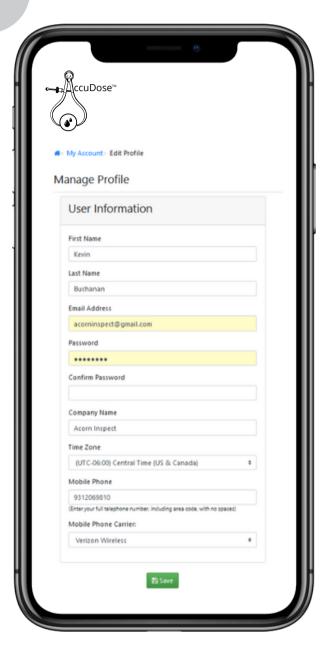
- Open up the APP and select "Connect".
- The Server sign up screen will appear (See Diagram 1 Below).
- Enter the "Email Address" and "Password" supplied with unit.
- Then select "Sign In".

MAIN USER DASHBOARD



- My Account Setting up individual profile (page 11).
- Sites-List of Sites (page 12).
- Users- List of all of the users for the notifications (page 13).
- Notifications- Select who will receive the alarms and notifications (page 14-15).
- Datapoints- Logs of all the analogs and digitals (page 16).
- Events- Logs of all of the actual events (page 17).
- Controllers- List of the users controllers (page 18).

MANAGE PROFILE AND USER INFORMATION

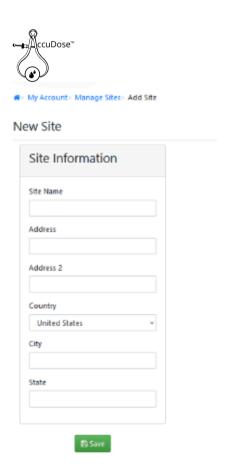


- · First Name- User's first name.
- · Last Name- User's last name.
- Email Address- User's email address.
- Password- Assigned password.
- · Company Name- Organization name.
- Time Zone- The time zone where the system is located.
- Mobile Phone- User's mobile phone number for texts and emails.
- Mobile Phone Carrier- The cellular carrier of the user's cell phone

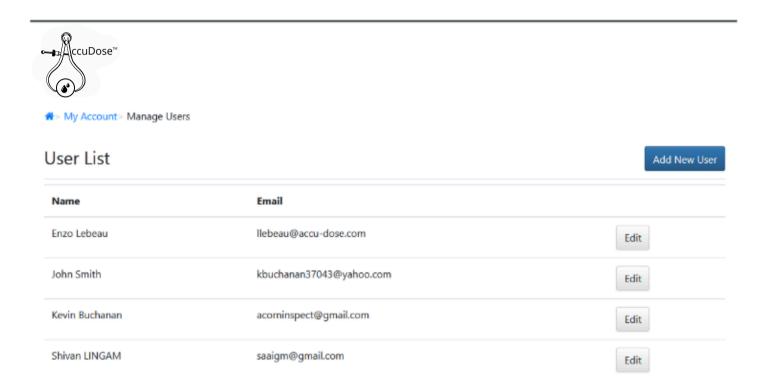
MANAGE SITES



• Site List- All sites can be managed, edited, or a new site added.



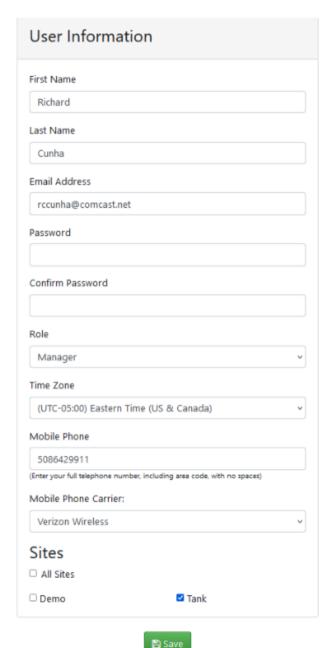
MANAGE USER AND NOTIFICATIONS



• User List- All users can be managed, edited, or a new user added.

MANAGE USER AND NOTIFICATIONS





Managers: have access to any sites that they've been allowed to see and can be set to receive notifications

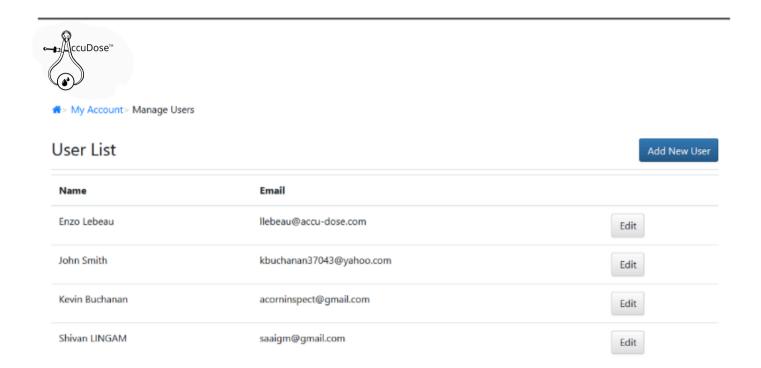
Users: are the same as Managers but cannot get notifications.

View-only Users: can only view units and cannot update config. If a view-only user tries they'll be prevented from doing so (they can still see the current config).

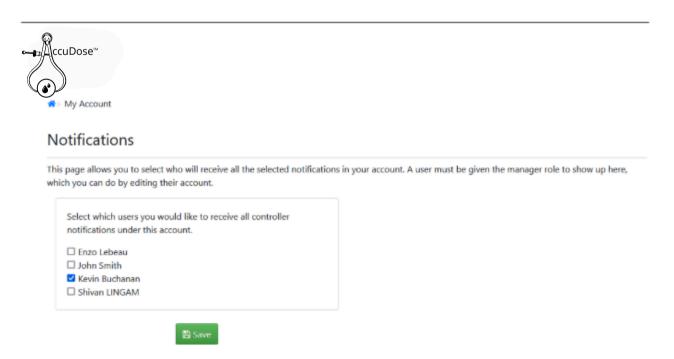


Sites: These are the specific sites that this manager can access from the server. You can select All Sites or only the checked sites.

MANAGE USER AND NOTIFICATIONS

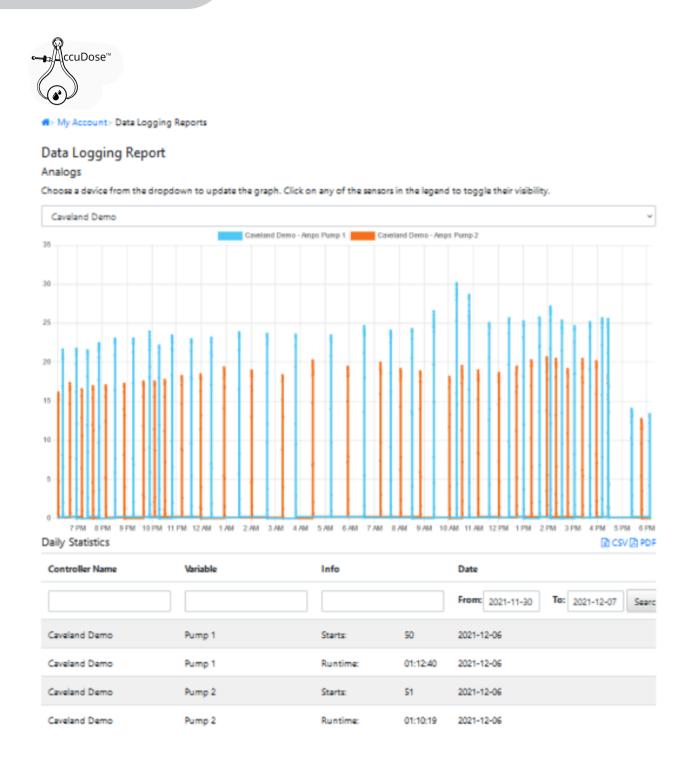


• User List- All users can be managed, edited, or a new user added.



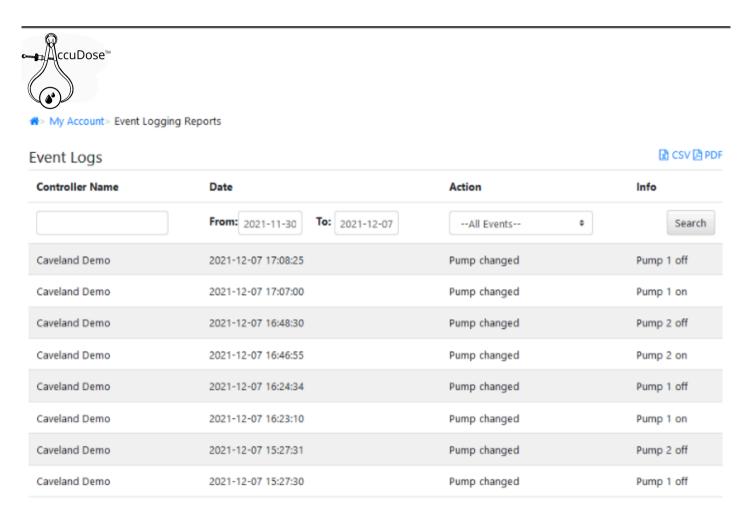
• Notifications List- Select user to be notified.

DATA POINTS



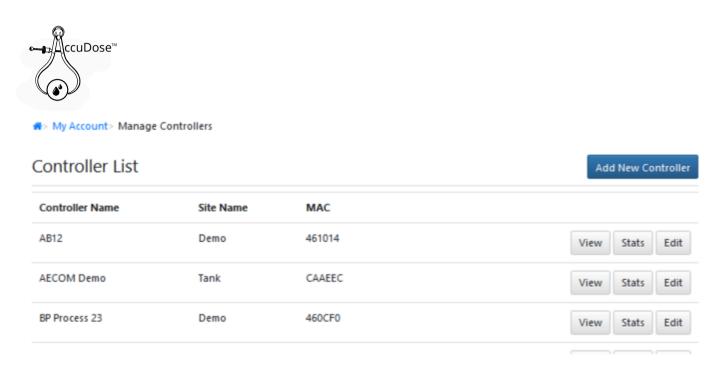
 Datapoints- All analog and digital historical data can be viewed and also CSV or PDF files can be downloaded.

EVENTS



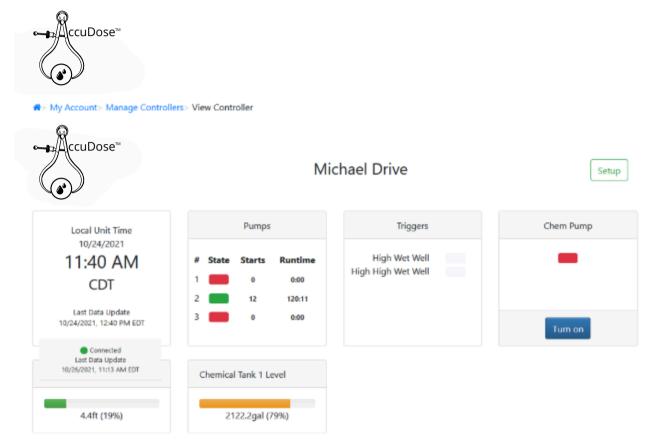
• Events- All analog and digital historical event can be viewed and also CSV or PDF files can be downloaded.

CONTROLLER LIST



• Controller List- All controllers can be managed, edited, or a new added added.

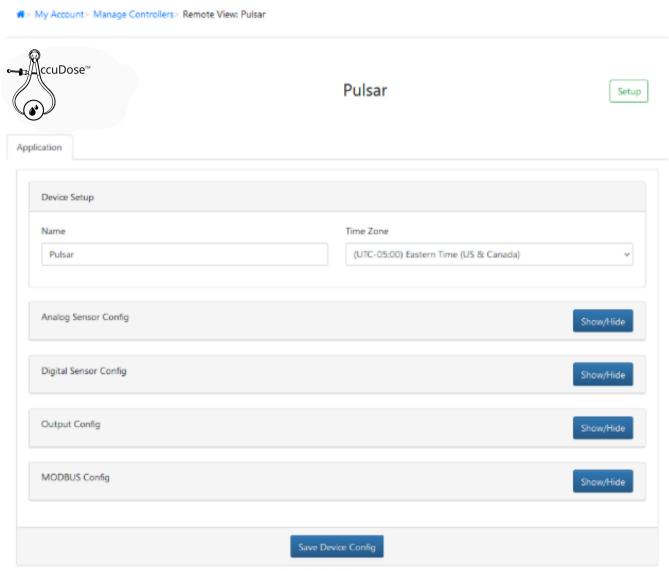
USER INTERFACE MAIN SCREEN



Copyright © 2021 Accudose

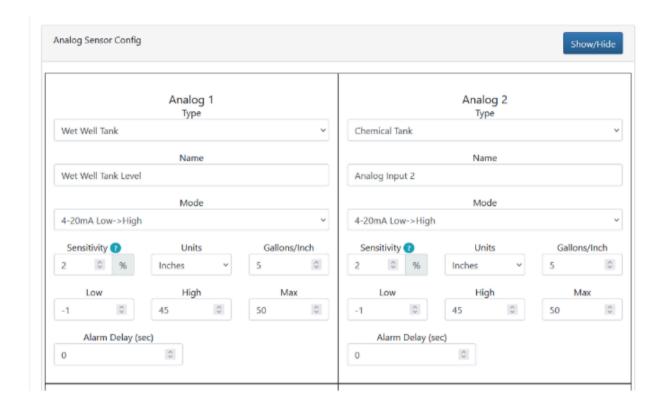
- Name of site: Michael Drive
- Local unit time: Local time at controller location via the internet.
- Connected: Displays the status of the connection between local controller and the cloud based server.
- Pumps: Shows the current state of the pump, number of starts of each pump, and the actual runtime of each pump.
- Triggers: Displays the status of high wet well or other alarms.
- Chem Pump: Displays the status of the chemical feed pump in dosing mode.
- Wetwell: Displays real time level of the wetwell.
- Chemical Tank 1 Level: Displays real time level of the chemical tank.

USER INTERFACE DEVICE SETUP



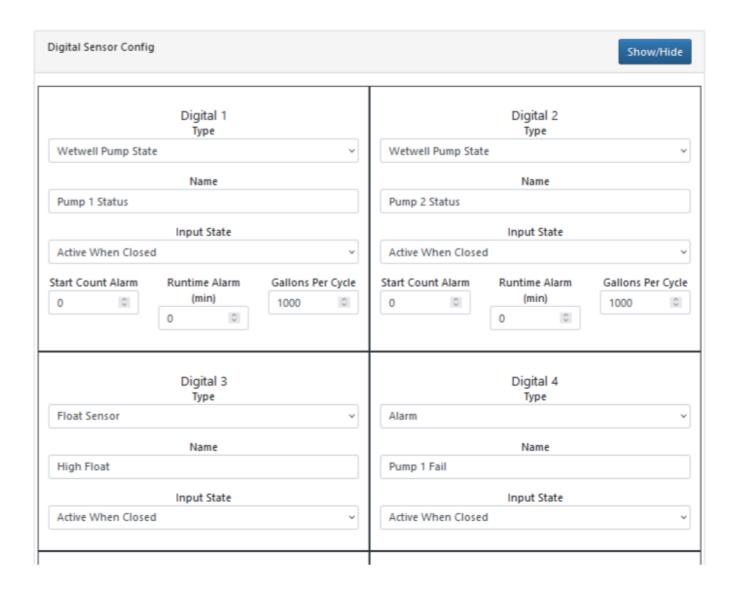
- Copyright © 2023 Accudose
- Time Zone: Set your local Time Zone.
- Name: Set the name of this controller.
- Analog Sensor Config: Select Show/Hide button.
- Digital Sensor Config: Select Show/Hide button.
- Output Config: Select Show/Hide button.
- MODBUS Config: Select Show/Hide button

ANALOG INPUT CONFIGURATION



- Type-Type of analog being monitored e.g. wet well, chemical tank, flow, etc. Select drop down menu to chose type of analog.
- Name- Name of the analog.
- Mode- this is the type of electrical input.
- Sensitivity- how often the analog will report to server based on percentage of analog change.
- Units- Engineering units.
- Gallons/Inch- this is the value the user enters that represents the number of gallons in one inch or one foot of liquid in this well or tank repectivley.
- Low- The setpoint for low alarm trigger.
- High- the setpoint for high alarm trigger.
- Max- engineering units at 20 ma.
- Alarm Delay- this is the amount of time in seconds entered by the user that the alarm will have to be active to trigger and actual alarm. Example: If the high level alarm setpoint is reached or exceeded that alarm will not be actually triggered and sent until the Alarm Delay value times out.

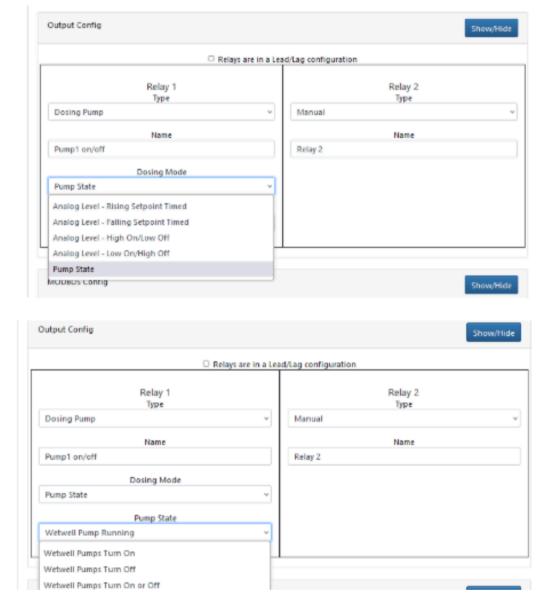
DIGITAL INPUT CONFIGURATION



Pump Alarm Config:

- Type- Type of digital being monitored e.g. Wetwell Pump, Float Sensor, Alarm, etc.
- Name- Name of the digital.
- Input State- Select whether the digital that is being monitored is active open or closed.
- Start Count Alarm- Enter the number of pump starts that when exceeded in 24 hrs will trigger an alarm.
- Runtime Alarm-Enter the number of runtime minutes that when exceeded in 24 hrs will trigger an alarm.

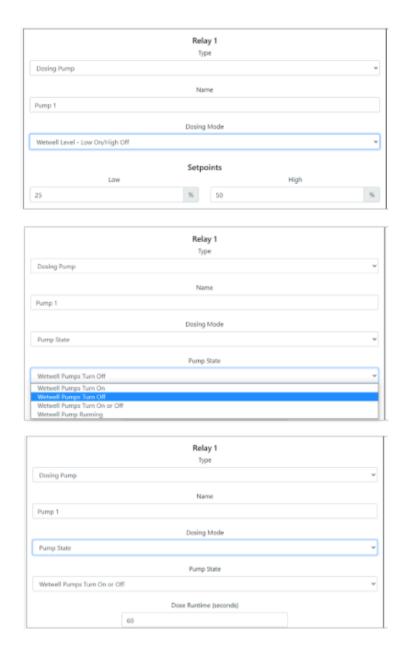
DIGITAL OUTPUT CONFIGURATION



Digital Output Config:

- Type- There are two types of digital outputs. Dosing Pump and Manual.
- Dosing Pump- This selection allows you to control a digital output based on a choice of settings.
- Manual- This selection allows you to turn on and off the digital output manually with a button.
- Name- Name of the digital output.
- Dosing Mode- Select what type of digital input will control the Relay output.
- Wetwell Pumps Turn On.
- Wet well Level-Timed- the output will go on based on level set points. The output will come on for the amount of time set by the user in Dose Runtime box.
- Wet well- High on/Low Off- This selection will control the output based on a high and low setpoint. The output will go on when the high setpoint is reached and off when the low setpoint is reached.

DIGITAL OUTPUT CONFIGURATION 2



Digital Output Config

- Wet well- Low on/High Off- This selection will control the output based on a high and low setpoint. The output will go on when the low setpoint is reached and off when the high setpoint is reached.
- Pump State- This selection will control the output based on the conditon of the existing wet well pump.
- Dose Runtime- this setting will dictate how long the output will stay on after the appropriate condition is met in the pump state setting.