

# Accu-Dose Accu-Watch RMC-1000/2000 User Manual



Michael Drive

Setup

Local Unit Time  
10/25/2021  
**10:02 AM**  
CDT  
Last Data Update  
10/25/2021, 11:02 AM EDT

Pumps			
#	State	Starts	Runtime
1	<span style="color: red;">■</span>	0	0:00
2	<span style="color: red;">■</span>	11	289:26
3	<span style="color: red;">■</span>	0	0:00

Triggers

High Wet Well

High High Wet Well

Chem Pump

■

Turn on

Wetwell Level

■

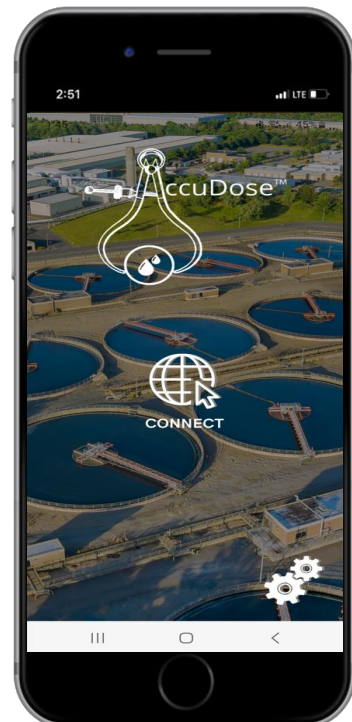
5.9ft (26%)

Chemical Tank 1 Level

■

2040.7gal (76%)

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# Accu-Dose Accu-Watch RMC-1000/2000 User Manual

## Table of Contents

### **INSTALLATION**

3. Mounting.
4. Wiring Diagram.
5. Wiring Diagram Analog Isolator.

### **SETUP**

6. Apple and Android Accudose APP.
7. Connecting to the Server and User Interface.
8. Connecting to the Server and User Interface (2).
9. Manage Profile and User Information.
10. Manage Sites.
11. Manage User and Notifications.

### **USER INTERFACE**

12. Datapoints.
13. Events.
14. Controller List.
15. User Interface Main Screen.

### **NETWORK SETUP**

16. User Interface Network Setup.

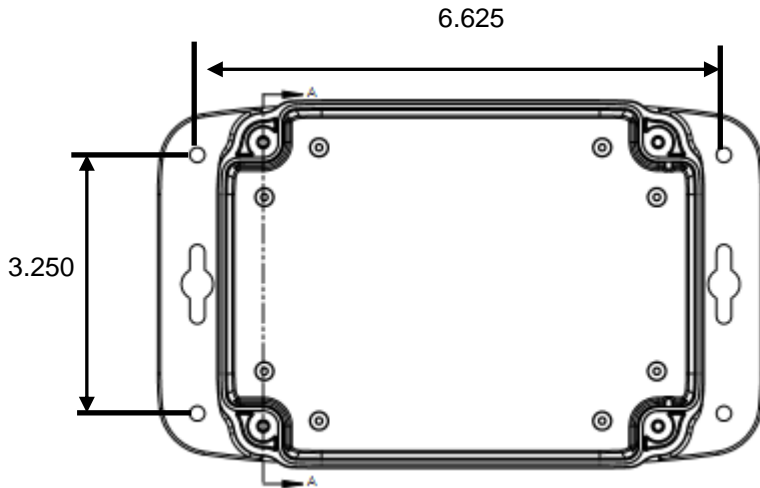
### **DEVICE SETUP**

17. User Interface Device Setup.
18. Analog Configuration.
19. Digital Configuration.

# Accu-Dose RMC-1000/2000 User Manual

## Installation

### 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.

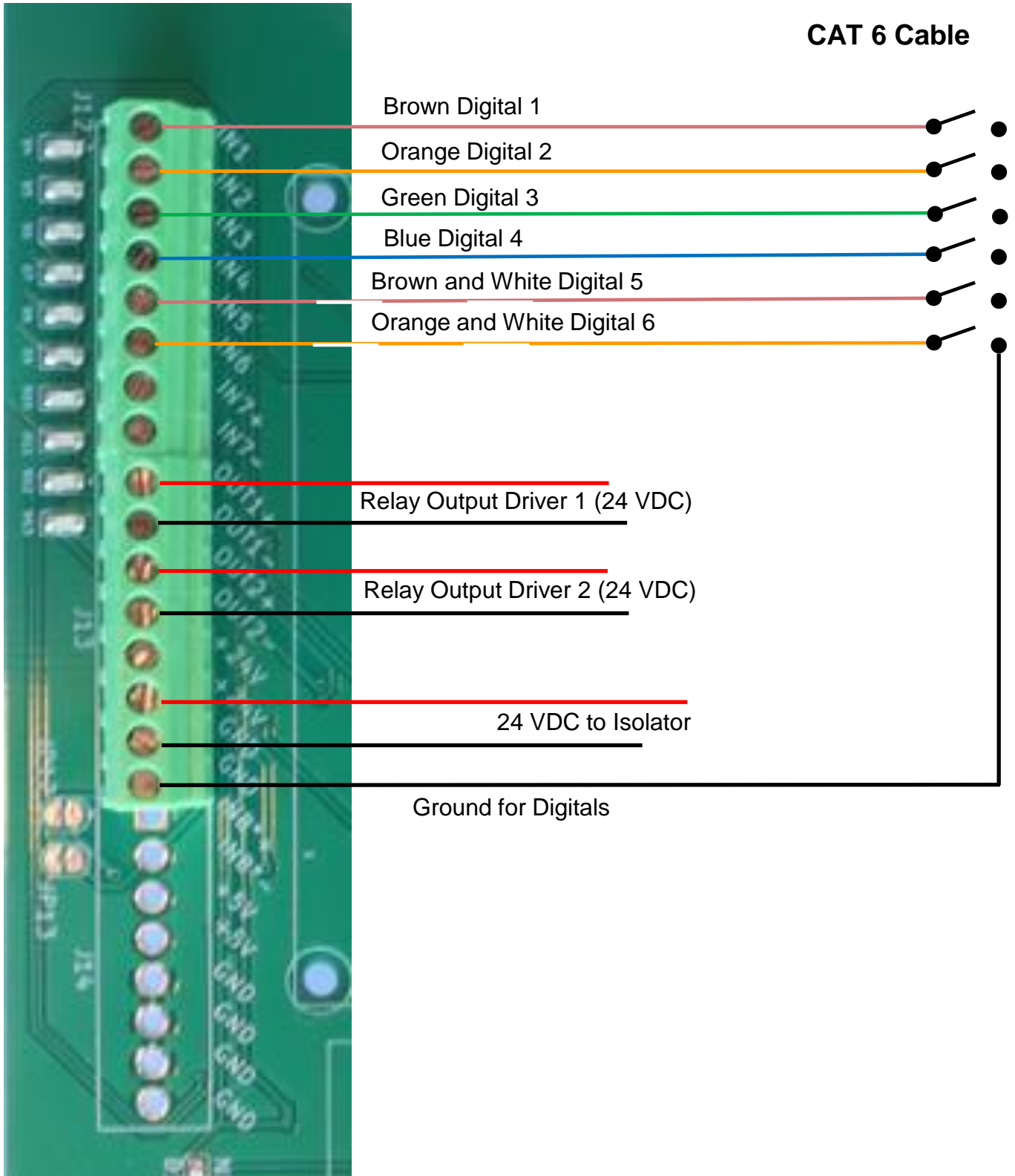


# Accu-Dose RMC-1000/2000 User Manual

## Installation

### Wiring Diagram RMC-2000

#### Digital Inputs/Relay Outputs

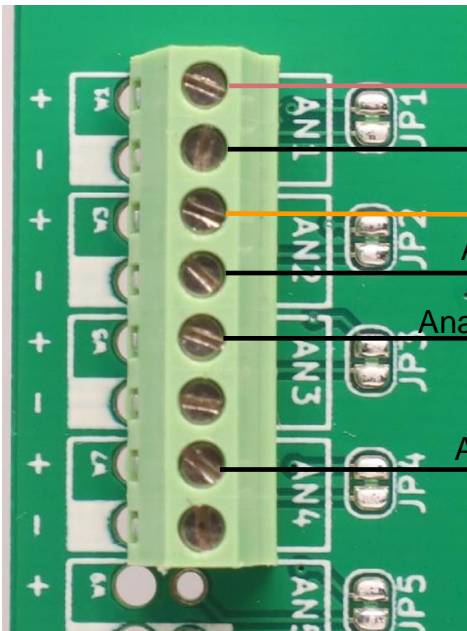


# Accu-Dose RMC-1000/2000 User Manual

## Installation

### Wiring Diagram RMC-2000

#### Analog Inputs



Analog AN1 Positive

Analog AN1 Ground

Analog AN2 Positive

Analog AN1 Ground

Analog AN3 Input Device Negative

Analog AN4 Input Device Negative

4 to 20 MA  
Sensor. Sensor  
provides power

4 to 20 MA Sensor.  
RMC-2000  
provides power



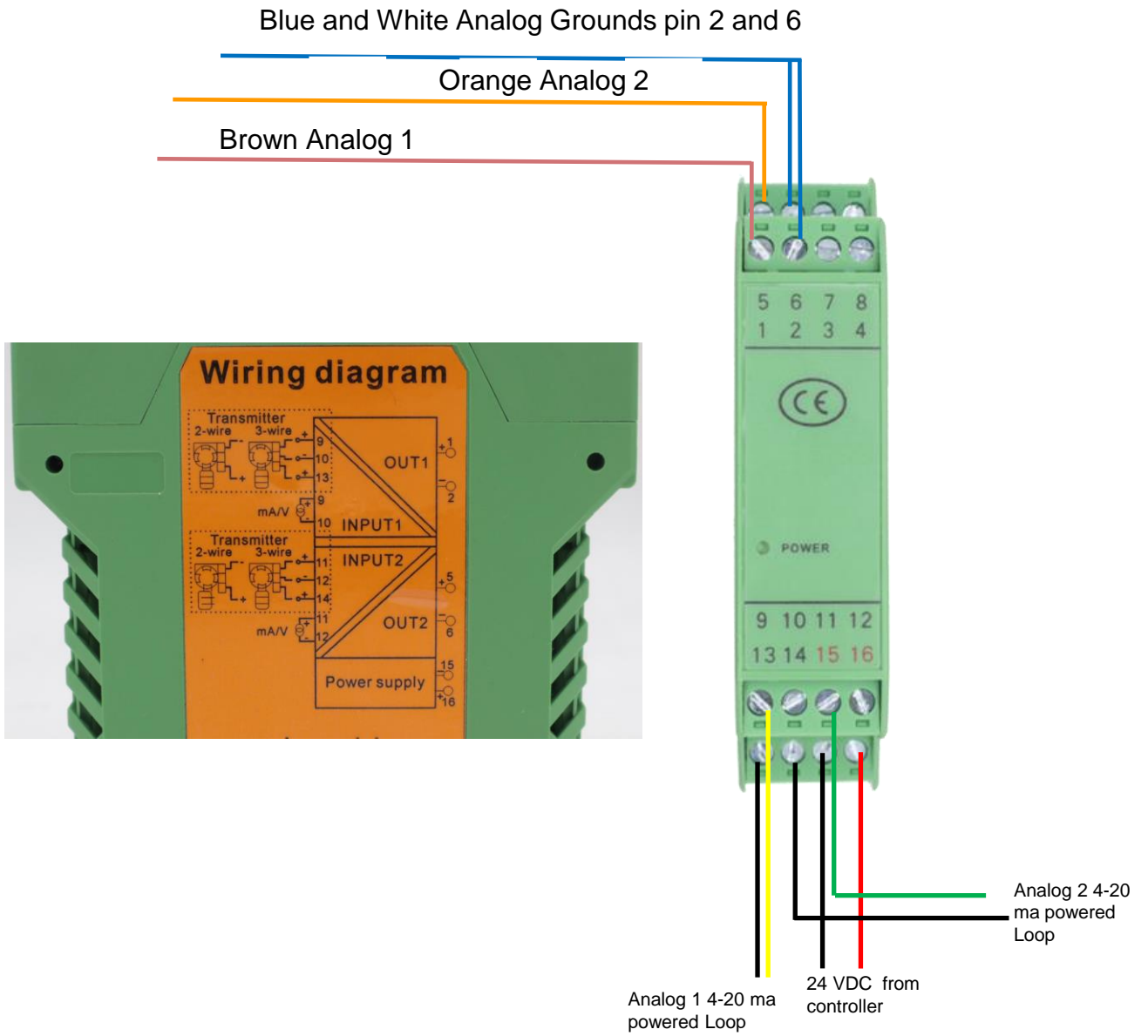
Analog AN3 Input Sensor 24 VDC

# Accu-Dose RMC-1000/2000 User Manual

## Installation

### Wiring Diagram

### Analog Isolator

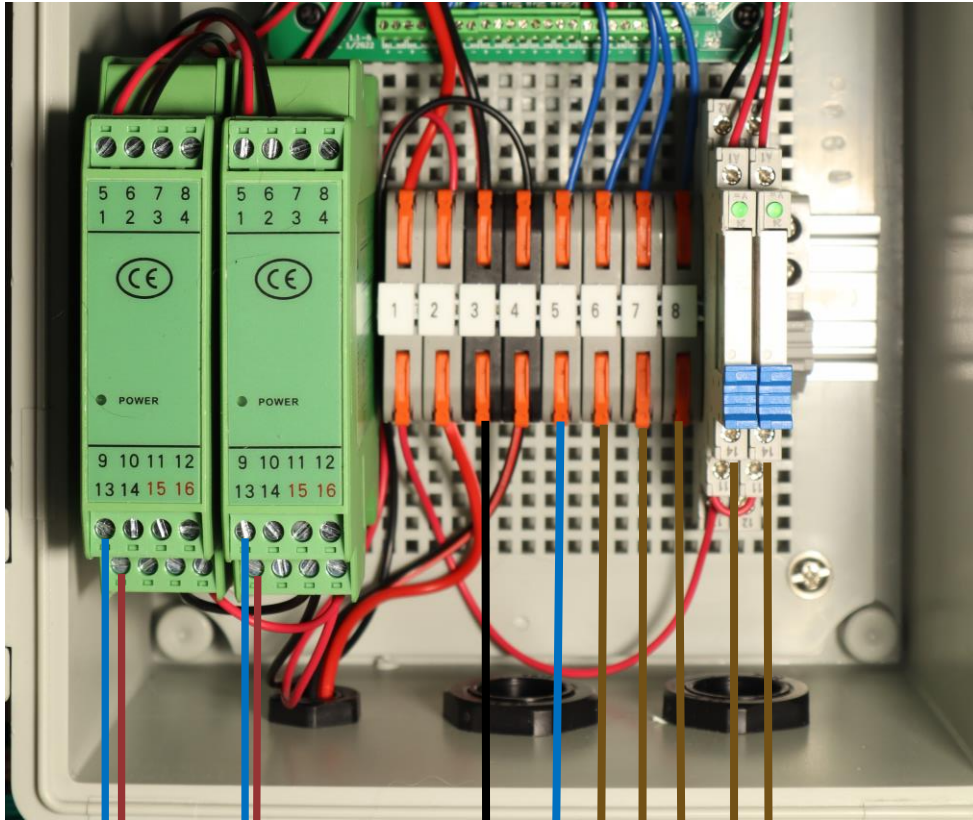




# Accu-Dose RMC-1000/2000 User Manual

## Installation

### Wiring Diagram RMC-2000i



Level Transducer 1  
Analog 1  
**Pin 13 - Blue**  
**Pin 9 + Brown**

Level Transducer 2  
Analog 2  
**Pin 13 - Blue**  
**Pin 9 + Brown**

Relay output 2  
control (Optional)

Relay output 1  
control (Optional)

Wet Well pump  
running feedback  
From pump panel  
**110 VAC**

Pin 13



Pin 5

Pin 9

Wet Well pump  
running feedback  
Relay

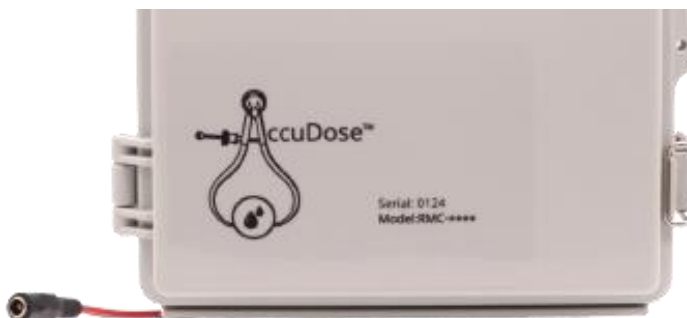
Digital Input 4

Black Wire digital  
ground feedback

Digital Input 3

Digital Input 2

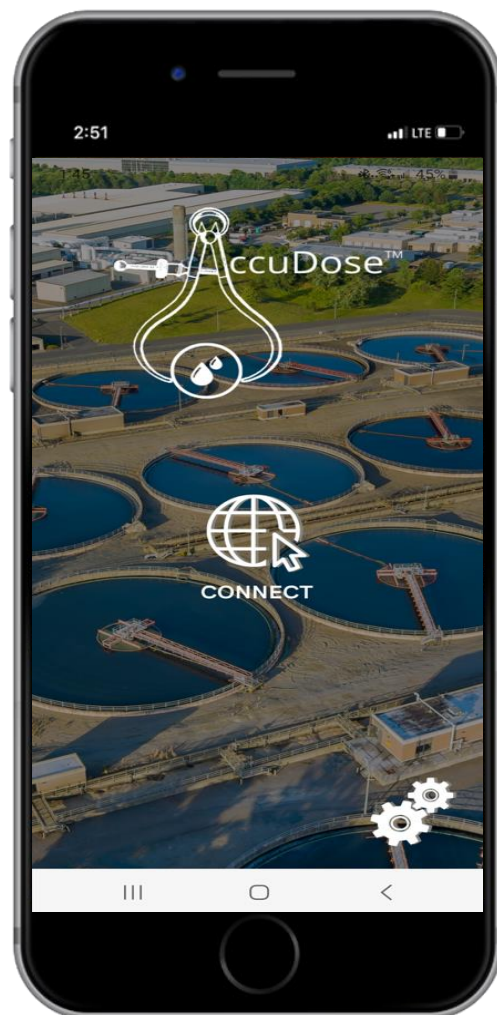
24 VDC power  
Adapter



# Accu-Dose RMC-1000/2000 User Manual

## Apple and Android Accudose APP

- Download the APP from either the Apple store or the Android Play store.
- Select the AccuDose desktop icon.
- The AccuDose 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.





# AccuDose RMC-1000/2000 User Manual

## Local Access User Interface Network Setup



Network

Device

Network Setup

Mac Address: 94:3C:C6:46:0C:F0

Connect to Wifi  
 Enable Cellular Modem

APN

hologram

Signal Strength

-69

(Device will disconnect from cellular network while updating the cell signal)

Update

Save Network Config and Reboot

Copyright © 202

- 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.

# Accu-Dose RMC-1000/2000 User Manual

## 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”.

Call us now: (866) 310-1055



### Create Account

To create an account, please click the button below. You will need to have the information from one of your controllers handy.

 Create Your Account

### Login

Email Address

Password

 Sign In

[Forgot your password?](#)

**Diagram 1**

# Accu-Dose RMC-1000/2000 User Manual

## Connecting to the Server and User Interface (2)

Call us now: (866) 310-1055

Welcome, Kevin Buchanan [My Account](#) [Log Out](#)



[Home](#) > [My Account](#)

### My Account

Welcome to your dashboard. Here you can manage all your controller information and programming.

Sites

2


[View List](#)


Controllers

9

[View List](#)

Logs

 [Datapoints](#)

 [Events](#)

Users


4

[View List](#)

Notifications

Kevin Buchanan

[Re-assign](#)

- My Account  - Setting up individual profile (page 10).
- Sites- List of Sites (page 11).
- Users- List of all of the users for the notifications (page 12).
- Notifications- Select who will receive the alarms and notifications (page 12).
- Datapoints- Logs of all the analogs and digitals (page 13).
- Events- Logs of all of the actual events (page 14).
- Controllers- List of the users controllers (page 15).

# Accu-Dose RMC-1000/2000 User Manual

## Manage Profile and User Information



[My Account](#) > Edit Profile

### Manage Profile

#### User Information

First Name

Last Name

Email Address

Password

Confirm Password

Company Name

Time Zone

Mobile Phone  
  
(Enter your full telephone number, including area code, with no spaces)

Mobile Phone Carrier:

Save

- 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.

# Accu-Dose RMC-1000/2000 User Manual

## Manage Sites



[Home](#) > [My Account](#) > Manage Sites

### Site List

[Add New Site](#)

Site Name	Address	Country		
Demo		United States	<a href="#">Manage Controllers</a>	<a href="#">Edit</a>
Tank	1250 Walter Head Road Cedar Hill TN	United States	<a href="#">Manage Controllers</a>	<a href="#">Edit</a>

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



[Home](#) > [My Account](#) > [Manage Sites](#) > Add Site

### New Site

#### Site Information

Site Name

Address

Address 2

Country

City

State

[Save](#)



# Accu-Dose RMC-1000/2000 User Manual

## Manage User and Notifications



[Home](#) > [My Account](#) > Manage Users

### User List

Add New User

Name	Email	
Enzo Lebeau	llebeau@accu-dose.com	Edit
John Smith	kbuchanan37043@yahoo.com	Edit
Kevin Buchanan	acorninspect@gmail.com	Edit
Shivan LINGAM	saaigm@gmail.com	Edit

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

# Accu-Dose RMC-1000/2000 User Manual

## Manage User and Notifications

### User Information

First Name

Last Name

Email Address

Password

Confirm Password

Role

Time Zone

Mobile Phone  
  
(Enter your full telephone number, including area code, with no spaces)

Mobile Phone Carrier:

### Sites

All Sites

Demo  Tank

**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).

Role

Manager  
User  
View-Only User

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

 Save

# Accu-Dose RMC-1000/2000 User Manual

## Manage User and Notifications



[Home](#) > [My Account](#) > Manage Users

### User List

Add New User

Name	Email	
Enzo Lebeau	llebeau@accu-dose.com	Edit
John Smith	kbuchanan37043@yahoo.com	Edit
Kevin Buchanan	acorninspect@gmail.com	Edit
Shivan LINGAM	saaigm@gmail.com	Edit

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



[Home](#) > My Account

### Notifications

This page allows you to select who will receive all the selected notifications in your account. A user must be given the manager role to show up here, which you can do by editing their account.

Select which users you would like to receive all controller notifications under this account.

- Enzo Lebeau
- John Smith
- Kevin Buchanan
- Shivan LINGAM

Save

➤ Notifications List- Select user to be notified.

# Accu-Dose RMC-1000/2000 User Manual

## Datapoints

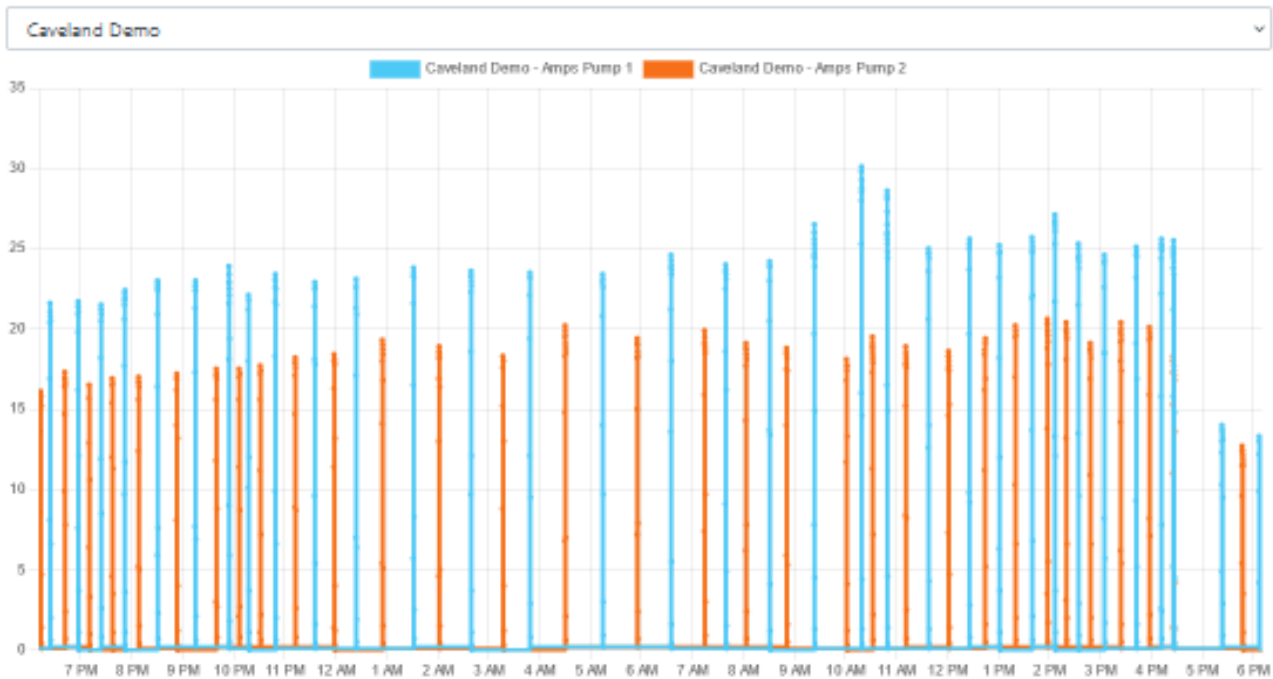


My Account > Data Logging Reports

### Data Logging Report

#### Analogs

Choose a device from the dropdown to update the graph. Click on any of the sensors in the legend to toggle their visibility.



#### Daily Statistics

[CSV](#) [PDF](#)

Controller Name	Variable	Info	Date
<input type="text"/>	<input type="text"/>	<input type="text"/>	From: 2021-11-30 To: 2021-12-07 <input type="button" value="Search"/>
Caveland Demo	Pump 1	Starts: 50	2021-12-06
Caveland Demo	Pump 1	Runtime: 01:12:40	2021-12-06
Caveland Demo	Pump 2	Starts: 51	2021-12-06
Caveland Demo	Pump 2	Runtime: 01:10:19	2021-12-06

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

# Accu-Dose RMC-1000/2000 User Manual

## Events



[Home](#) > [My Account](#) > Event Logging Reports

### Event Logs

[CSV](#) [PDF](#)

Controller Name	Date	Action	Info
<input type="text"/>	<b>From:</b> <input type="text" value="2021-11-30"/> <b>To:</b> <input type="text" value="2021-12-07"/>	<input type="text" value="--All Events--"/>	<input type="button" value="Search"/>
Caveland Demo	2021-12-07 17:08:25	Pump changed	Pump 1 off
Caveland Demo	2021-12-07 17:07:00	Pump changed	Pump 1 on
Caveland Demo	2021-12-07 16:48:30	Pump changed	Pump 2 off
Caveland Demo	2021-12-07 16:46:55	Pump changed	Pump 2 on
Caveland Demo	2021-12-07 16:24:34	Pump changed	Pump 1 off
Caveland Demo	2021-12-07 16:23:10	Pump changed	Pump 1 on
Caveland Demo	2021-12-07 15:27:31	Pump changed	Pump 2 off
Caveland Demo	2021-12-07 15:27:30	Pump changed	Pump 1 off

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



# Accu-Dose RMC-1000/2000 User Manual

## Controller List



[Home](#) > [My Account](#) > Manage Controllers

### Controller List

[Add New Controller](#)

Controller Name	Site Name	MAC	
AB12	Demo	461014	<a href="#">View</a> <a href="#">Stats</a> <a href="#">Edit</a>
AECOM Demo	Tank	CAAEEC	<a href="#">View</a> <a href="#">Stats</a> <a href="#">Edit</a>
BP Process 23	Demo	460CF0	<a href="#">View</a> <a href="#">Stats</a> <a href="#">Edit</a>

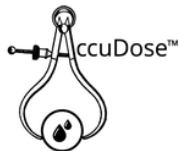
➤ Controller List- All controllers can be managed, edited, or a new added added.

# Accu-Dose RMC-1000/2000 User Manual

## User Interface Main Screen



[Home](#) > [My Account](#) > [Manage Controllers](#) > [View Controller](#)



### Michael Drive

[Setup](#)

Local Unit Time  
10/24/2021  
**11:40 AM**  
CDT

Last Data Update  
10/24/2021, 12:40 PM EDT

● Connected  
Last Data Update  
10/26/2021, 11:13 AM EDT

4.4ft (19%)

Pumps			
#	State	Starts	Runtime
1	<span style="color: red;">■</span>	0	0:00
2	<span style="color: green;">■</span>	12	120:11
3	<span style="color: red;">■</span>	0	0:00

Triggers

High Wet Well

High High Wet Well

Chem Pump

■

[Turn on](#)

Chemical Tank 1 Level

2122.2gal (79%)


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- 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 Accudose mode.
- Wetwell: Displays real time level of the wetwell.
- Chemical Tank 1 Level: Displays real time level of the chemical tank.

# Accu-Dose RMC-1000/2000 User Manual

## User Interface Device Setup

[Home](#) > [My Account](#) > [Manage Controllers](#) > Remote View: Pulsar



Pulsar Setup

Application

Device Setup

Name  Time Zone

Analog Sensor Config Show/Hide

Digital Sensor Config Show/Hide

Output Config Show/Hide

MODBUS Config Show/Hide

Save Device Config

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- 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

# Accu-Dose RMC-1000/2000 User Manual

## Analog Configuration

Analog Sensor Config Show/Hide

Analog 1	Analog 2
Type Wet Well Tank	Type Chemical Tank
Name Wet Well Tank Level	Name Analog Input 2
Mode 4-20mA Low->High	Mode 4-20mA Low->High
Sensitivity ? 2 %	Sensitivity ? 2 %
Units Inches	Units Inches
Gallons/Inch 5	Gallons/Inch 5
Low -1	Low -1
High 45	High 45
Max 50	Max 50
Alarm Delay (sec) 0	Alarm Delay (sec) 0

- Type-Type of analog being monitored e.g. wetwell, 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.

# Accu-Dose RMC-1000/2000 User Manual

## Digital Input Configuration

Digital Sensor Config Show/Hide

Digital 1	Digital 2
<p>Type: Wetwell Pump State</p> <p>Name: Pump 1 Status</p> <p>Input State: Active When Closed</p> <p>Start Count Alarm: 0</p> <p>Runtime Alarm (min): 0</p> <p>Gallons Per Cycle: 1000</p>	<p>Type: Wetwell Pump State</p> <p>Name: Pump 2 Status</p> <p>Input State: Active When Closed</p> <p>Start Count Alarm: 0</p> <p>Runtime Alarm (min): 0</p> <p>Gallons Per Cycle: 1000</p>
Digital 3	Digital 4
<p>Type: Float Sensor</p> <p>Name: High Float</p> <p>Input State: Active When Closed</p>	<p>Type: Alarm</p> <p>Name: Pump 1 Fail</p> <p>Input State: Active When Closed</p>

### 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.



# Accu-Dose RMC-1000/2000 User Manual

## Digital Output Configuration

The screenshot shows the 'Output Config' window with a 'Show/Hide' button in the top right. A checkbox labeled 'Relays are in a Lead/Lag configuration' is checked. The interface is divided into two columns for 'Relay 1' and 'Relay 2'. Under 'Relay 1', the 'Type' dropdown is set to 'Dosing Pump', the 'Name' text box contains 'Pump1 on/off', and the 'Dosing Mode' dropdown is open, showing options: 'Pump State', 'Analog Level - Rising Setpoint Timed', 'Analog Level - Falling Setpoint Timed', 'Analog Level - High On/Low Off', 'Analog Level - Low On/High Off', and 'Pump State' (highlighted). The 'MOBUS CONFIG' section is partially visible at the bottom with a 'Show/Hide' button.

This screenshot is similar to the one above, but the 'Dosing Mode' dropdown is now set to 'Pump State'. The 'Pump State' dropdown is open, showing options: 'Wetwell Pump Running' (highlighted), 'Wetwell Pumps Turn On', 'Wetwell Pumps Turn Off', 'Wetwell Pumps Turn On or Off', and 'Wetwell Pump Running'.

### 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.

# Accu-Dose RMC-1000/2000 User Manual

## Digital Output Configuration 2

Relay 1  
Type

Dosing Pump

Name

Pump 1

Dosing Mode

Wetwell Level - Low On/High Off

Setpoints

Low High

25 % 50 %

Relay 1  
Type

Dosing Pump

Name

Pump 1

Dosing Mode

Pump State

Pump State

Wetwell Pumps Turn Off

Wetwell Pumps Turn On

Wetwell Pumps Turn Off

Wetwell Pumps Turn On or Off

Wetwell Pump Running

Relay 1  
Type

Dosing Pump

Name

Pump 1

Dosing Mode

Pump State

Pump State

Wetwell Pumps Turn On or Off

Dose Runtime (seconds)

60

### 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 condition 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.