

Installation and User Manual

CommBox for GreenField App



CommBox for GreenField App

Internet Access to Controllers

Ag/MIS/UmGb-2833-01/22 Rev 2.1

P/N: 116865



CommBox for GreenField App

Installation and User Manual

Rev 2.1, 03/2025

Software Ver: 4.7.4.19

This manual for use and maintenance is an integral part of the apparatus together with the attached technical documentation.

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1 Introduction

1.1 Disclaimer

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1.2 Introduction

Congratulations on your excellent choice of using the CommBox Communication Device!

In order to realize the full benefit from this product it is important that it is installed, commissioned and operated correctly. Before installation or using the device, this manual should be studied carefully. It is also recommended that it is kept safely for future reference. The manual is intended as a reference for installation, commissioning and day-to-day operation of the Munters equipment.

1.3 Notes

Date of release: July 2019

Munters cannot guarantee to inform users about the changes or to distribute new manuals to them.

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2 Introduction to the CommBox

NOTE This manual details how to set up and run the CommBox. The controllers' software programs are documented in separate manuals.

CommBox provides complete access to your Munters irrigation controllers, including monitoring and control capabilities (GreenField App), from any device, anywhere. From one computer, tablet, or smartphone, you can manage an entire network.

- Cloud-based access to controllers
 - Multiple, simultaneous users have network access
- Multiple communication pathways
 - Built-in internet and telephone connectivity
 - Cellular connectivity option
 - 960-13-10001: COMMBX-GRH-EN-MUR-JB485-WEB (no modem)
 - 960-13-10029:COMMBX-GRH-EN-MUR-CMGB-JB485-WEB (includes global modem)
- Local communication via wired or wireless communication
- Status reports provide critical information on irrigation functions and statistics
- Push notifications

2.1 Junction Box

Connecting a CommBox directly to a controller requires a Junction Box. Refer to Connecting the CommBox to a Controller, page 10.

- P/N: 960-99-00091 COMMBX-JUNCTION BOX RS485 (COMMBX-JB-485)

2.2 What Comes in the Package

- CommBox
- Junction Box
- Power Supply Cables 115VAC and 230VAC

2.3 Supported Devices

- The following product versions support the Greenfield App application:
 - Greenfield Version 3.08.05 and above.
 - Greenfield Eco Version 9.08.05 and above.

NOTE Before upgrading the Greenfield from Version 3.07.XX to 3.08.XX the first time, copy (photograph) the settings of the controllers' tables. These tables can't be uploaded from a data plug; they must be entered manually.

3 Hardware Installation

This document details how to install Munters' CommBox unit. Installation consists of:

- Precautions
- CommBox Ports
- Mounting the CommBox
- Grounding
- Connecting the CommBox to the Internet
- SIM Card Connectivity
- Connecting the CommBox to Peripheral Devices
- Connecting the CommBox to a Controller
- Wiring Topology
- Termination

NOTE No software installation is required.

3.1 Precautions

Observe the following precautions when using your unit.

- Keep the CommBox as far as possible from heavy contactor boxes and other sources of electrical interference.
- Do not connect communication wire shields, which go from one house to another at both ends. Connect them at one end only. Connection at both ends can cause ground loop currents to flow, which reduces reliability.
- The COM connection for communications is not the shield wire. The COM, RX and TX wires must connect to each other at all controllers.

3.2 CommBox Ports

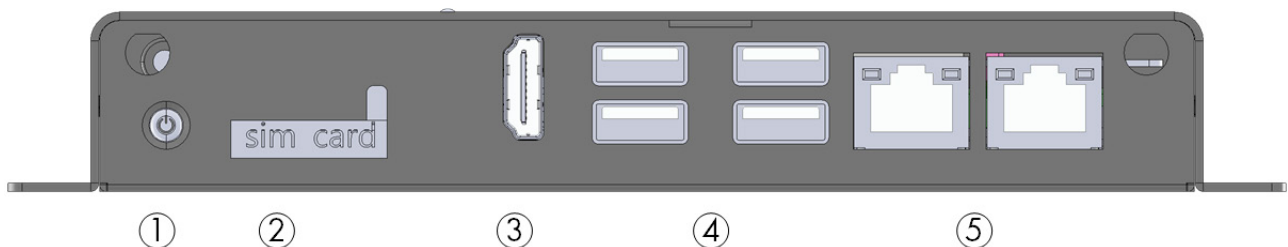


Figure 1: Front View

Number	Description
1	On/off button
2	SIM Card port (4G card can be used with a modem for cellular connectivity)
3	HDMI port (refer to Connecting the CommBox to Peripheral Devices)

4	USB ports(refer to Connecting the CommBox to Peripheral Devices)
5	Internet ports (refer to Connecting the CommBox to the Internet)

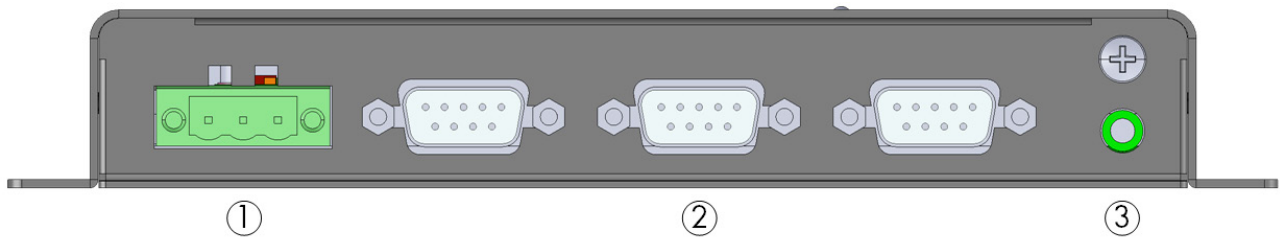


Figure 2: Rear View

Number	Description
1 & 2	External box cable connectors
3	Audio out

3.3 Mounting the CommBox

- Using the screws provided, mount the unit.

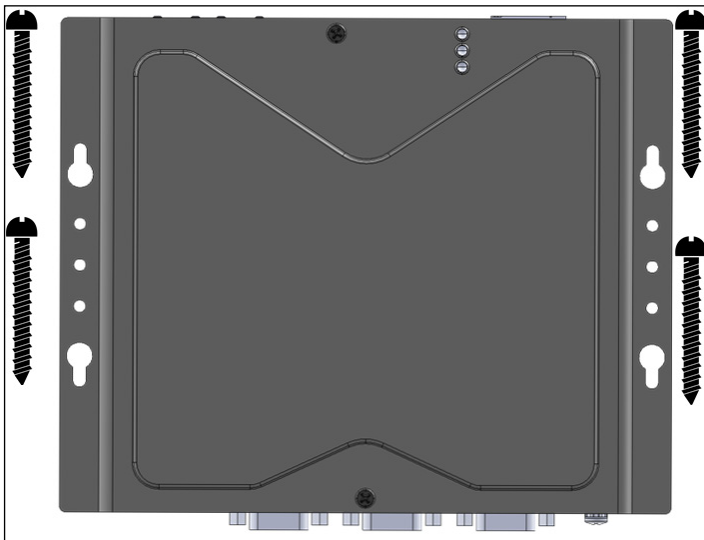


Figure 3: Unit and Mounting Screws

3.4 Grounding

- Connect the ground cable to the dedicated ground terminal.

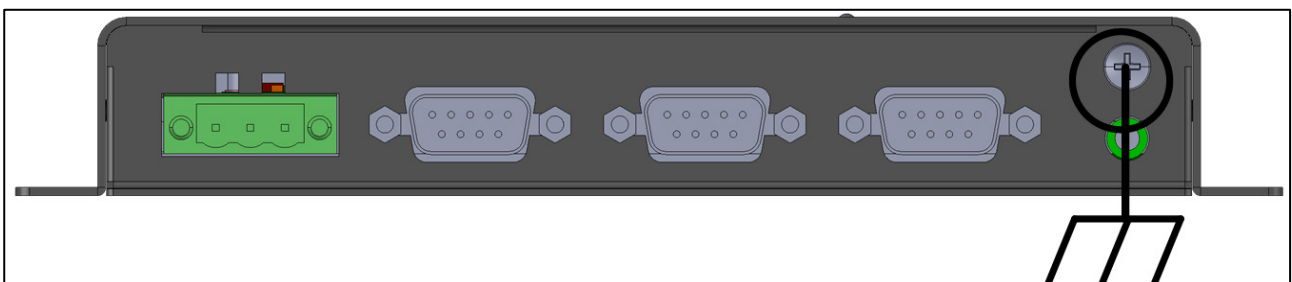


Figure 4: Grounding Schematic

CAUTION The CommBox must be grounded at all times!

3.5 Connecting the CommBox to the Internet

- Connect the CommBox to your Internet connection/modem.

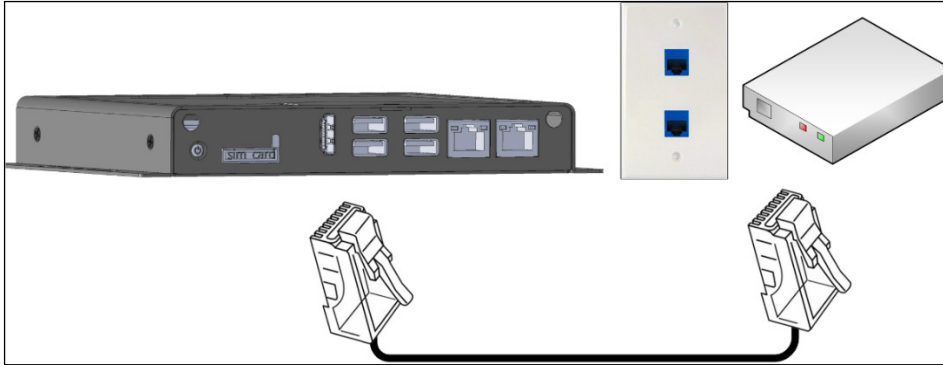


Figure 5: Internet Connection

3.6 SIM Card Connectivity

To configure the SIM card, please contact your dealer.

3.7 Connecting the CommBox to Peripheral Devices

When required, connect a screen, keyboard, or mouse to the CommBox (via the USB/HDMI ports).

NOTE Connect the screen to the CommBox using an HDMI cable only. Do not use any other type of cable connected to an HDMI adapter.



Figure 6: Peripheral Devices

3.8 Connecting the CommBox to a Controller

The only step in installing a CommBox that requires wiring is if the CommBox is connected directly to a controller (instead of to a communication unit). In this situation the CommBox must be wired to the controller communication card via a Junction Box.

- Controller to Junction Box Wiring
- RLINK One to Junction Box Wiring
- CommBox to Junction Box Wiring
- Wiring Topology
- Termination

WARNING! *Disconnect the power before beginning!*

WARNING! *Only an authorized electrical technician may perform this procedure!*

3.8.1 CONTROLLER TO JUNCTION BOX WIRING

In the controller, connect the CommBox to the controller's communication card, via the Junction Box. Refer to the following illustrations.

NOTE *GreenField irrigation installation supports RS-485 wiring only.*

1. The cable between the controller and the Junction Box should be a 3-wire twisted shielded cable (22 or 24 AWG).
2. Connect the wiring as follows:
 - COM to COM
 - CommBox A port is connected to Controller's A port.
 - The CommBox B port is connected to Controller's B port.
3. The final controller in any chain or branch requires a 120-ohm terminator.
4. Connect the cable shield wire to the controller ground strip.

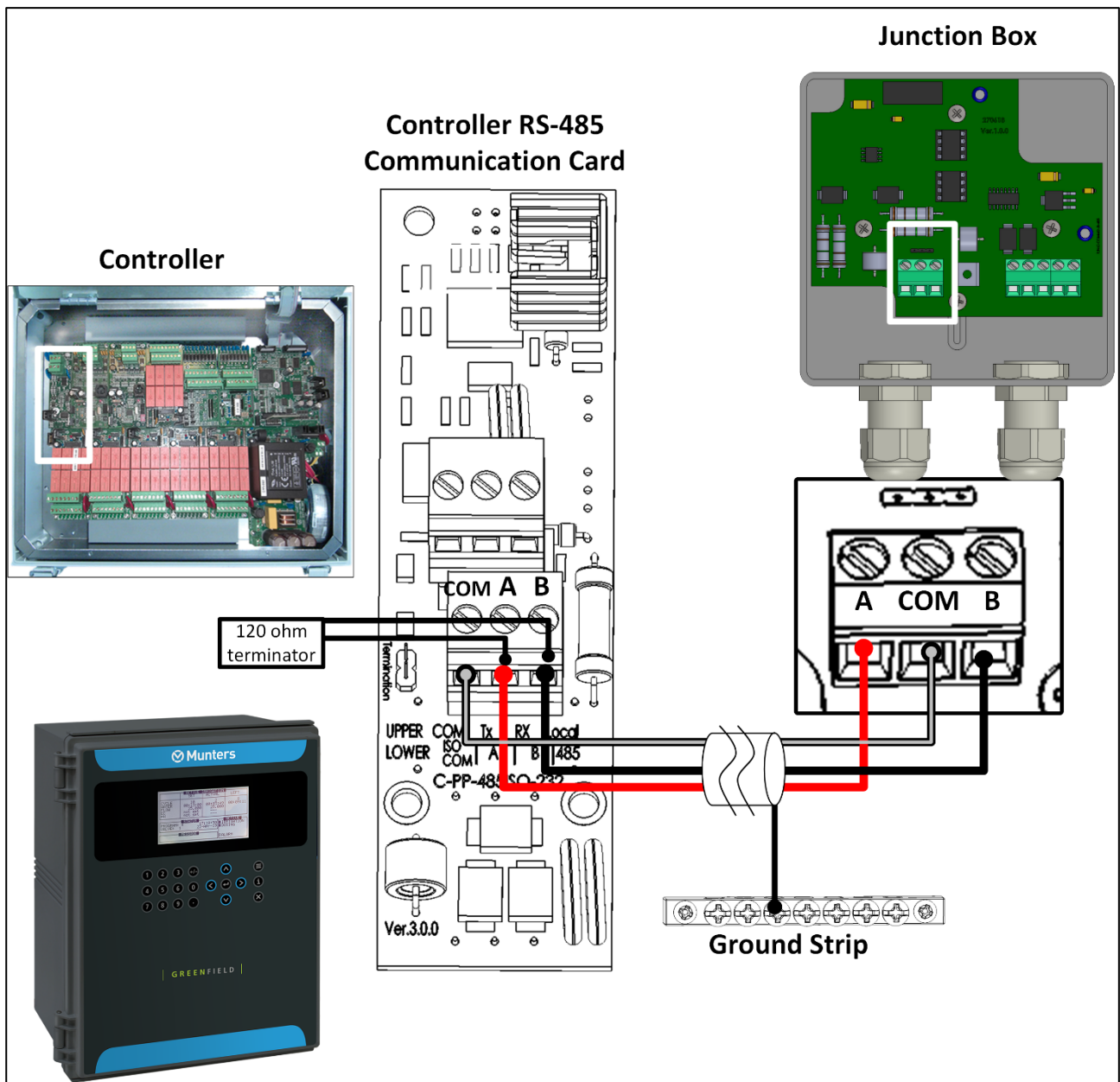


Figure 7: Green Field RS-485 Wiring

CAUTION Connect one end of the cable's shield only (the other end must be open). Each controller should be chain connected to the same wire, resulting in a long ground cable without a ground loop.

3.8.2 RLINK ONE TO JUNCTION BOX WIRING

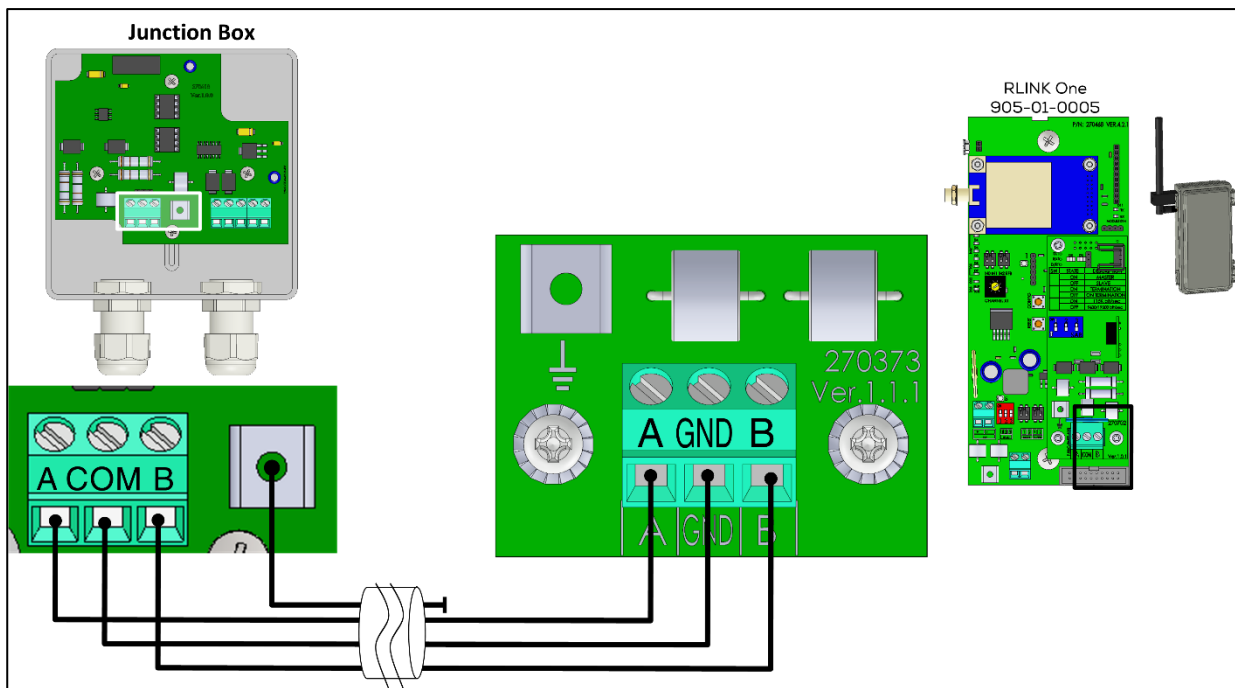


Figure 8: RLINK One RS-485 Wiring

1. The cable between the external connection box and the RLINK One should be a 3-wire twisted shielded cable (22 or 24 AWG).
2. Connect the wiring as follows:
 - COM to COM
 - CommBox A port is connected to Controller's A port.
 - The CommBox B port is connected to Controller's B port.
3. The final controller in any chain or branch requires a 120-ohm terminator. Refer to Termination, page 17.
4. Connect the cable shield wire to the controller ground strip.

3.8.3 COMMBOX TO JUNCTION BOX WIRING

- The CommBox comes with the power supply wired to the unit. See Figure 9.

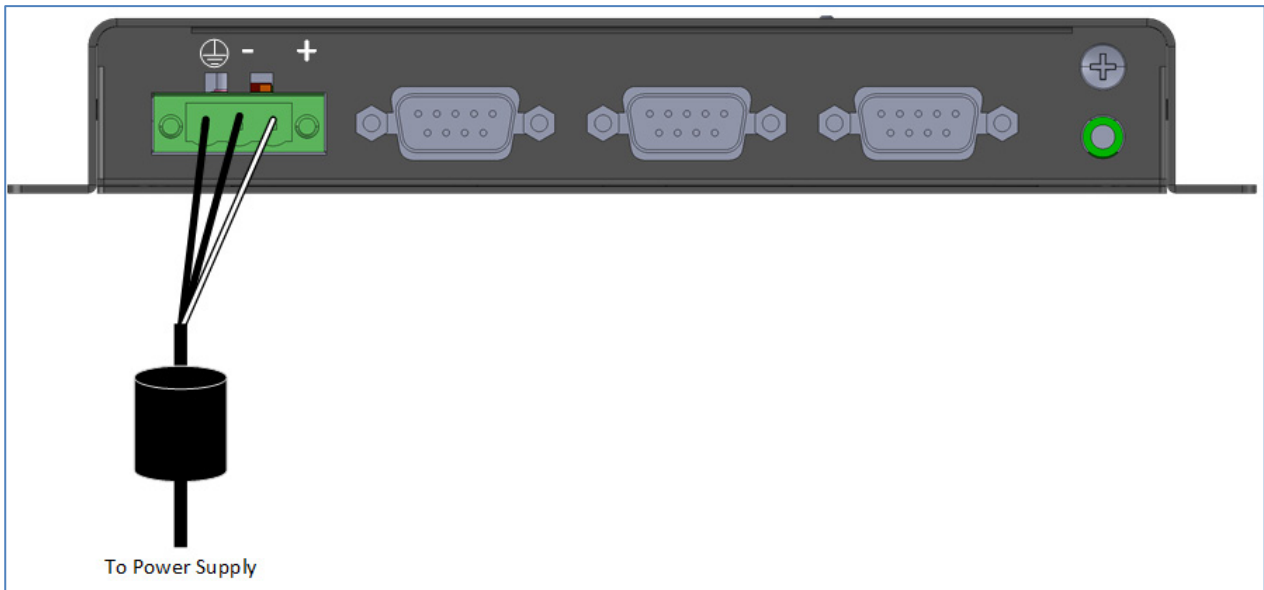


Figure 9: CommBox Power Supply Wiring

1. Insert the Junction Box 9-Pin Connector into COM1 (see Figure 10).

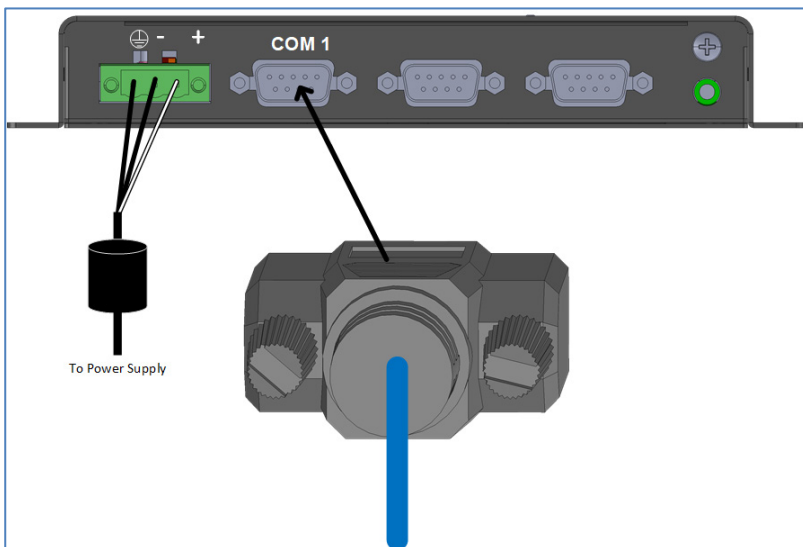


Figure 10: Insert 9 Pin Connector

2. Insert the two wires coming from the Junction Box cable into the ports (see Figure 11 and Figure 12).

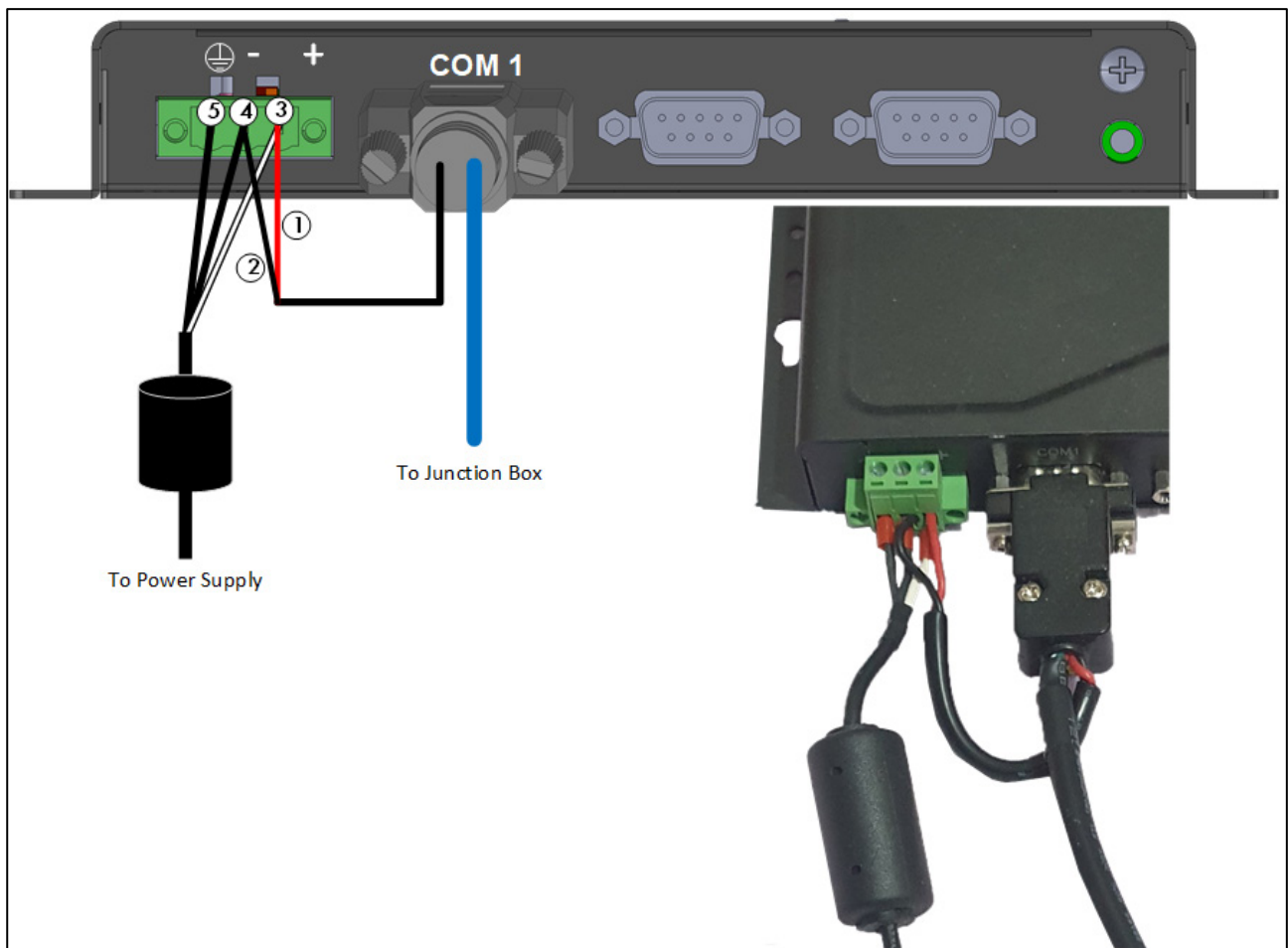


Figure 11: Junction Box Wiring to CommBox

Table 1: Wiring Details

Cable source	Color	Function	Number
Junction Box Cable	Red	+VCC (24 DC)	1
	Black	-VCC (Junction Box)	2
Power Supply Cable*	White	+VCC (Junction Box) (24 DC)	3
	Black	-VCC	4
	Black	Ground	5

*These wires come preconnected to the CommBox. If they need to be reattached, place the white cable (#3) in the port as shown in Figure 4. Place both black cables into the ports as shown in Figure 4; either cable can be placed in either port.

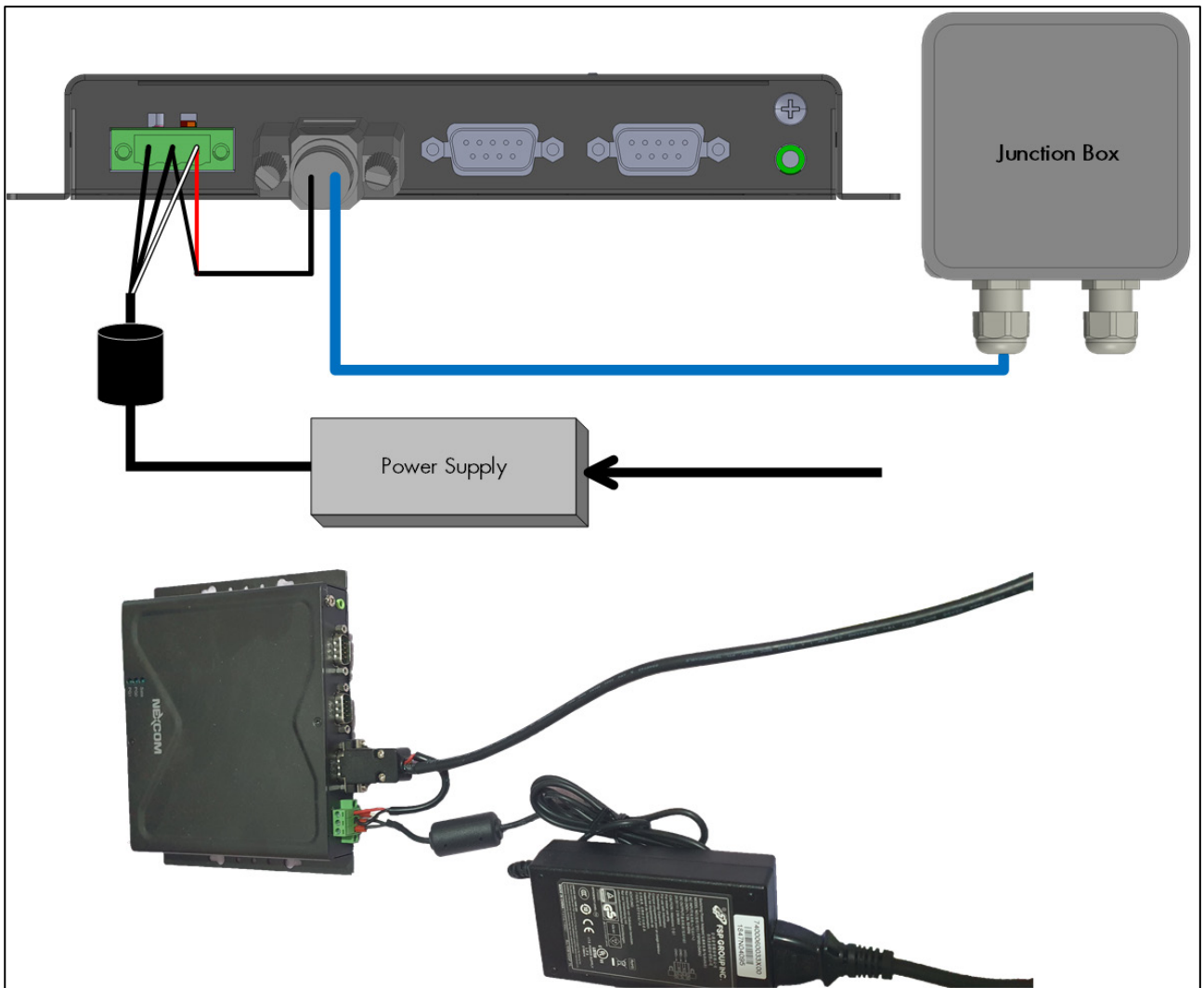


Figure 12: Power Supply – CommBox – Junction Box Setup

3.9 Wiring Topology

When connecting the CommBox to controllers via an RS-485 infrastructure, use one of the following allowed topologies to ensure signal integrity.

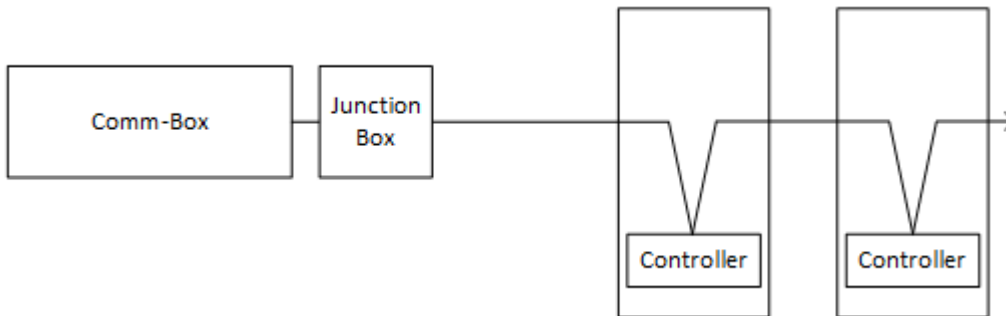


Figure 13: Direct connections

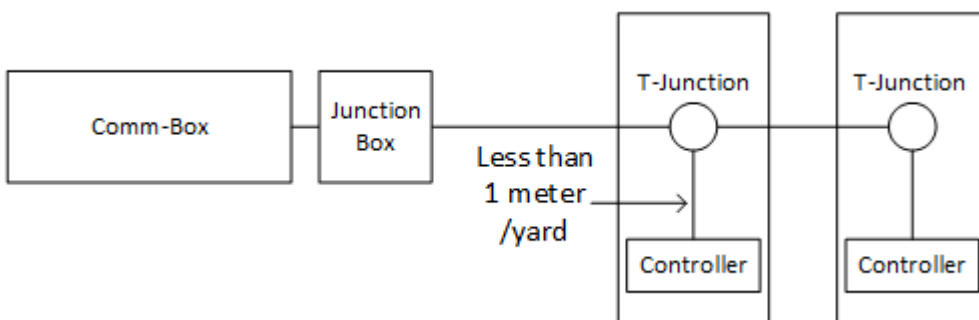


Figure 14: T-Junction (permitted)

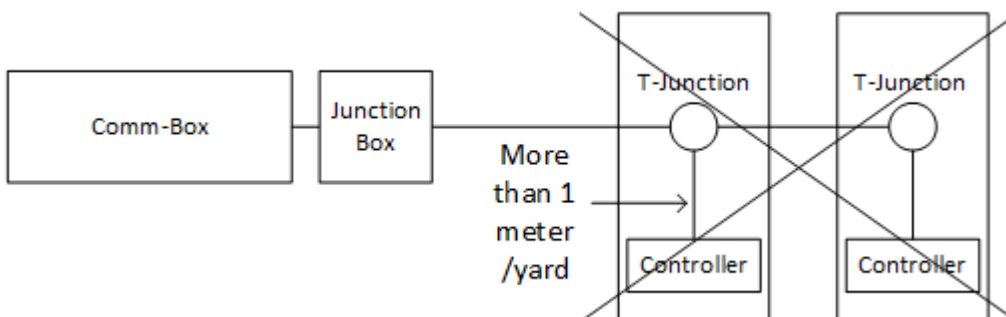


Figure 15: T-Junction (not permitted)

3.10 Termination

Termination, installing 120-ohm termination resistors at the beginning and end units of each chain of CommBox and controllers, ensures reliable communication in RS-485 infrastructures. The following illustrations show where to install the resistors. Depending on the topology, install the resistors in the T-box, the terminal controller, or the Munters Repeater.

Termination is recommended when the distance between the Junction Box and the final controller is more than 50 meters/165 feet. Munters Junction Box is supplied with a jumper and a 120 ohm resistor that can be installed in those installations (the jumper is placed in the Junction Box (see Figure 18, page 17), the resistor is installed in the controller).

Termination may not be required in shorter installations.

- Termination Topologies
- Termination Wiring

3.10.1 TERMINATION TOPOLOGIES

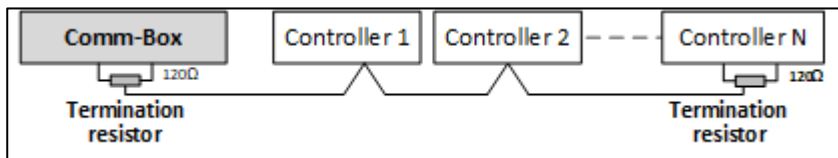


Figure 16: Topology 1: CommBox/Controller Termination

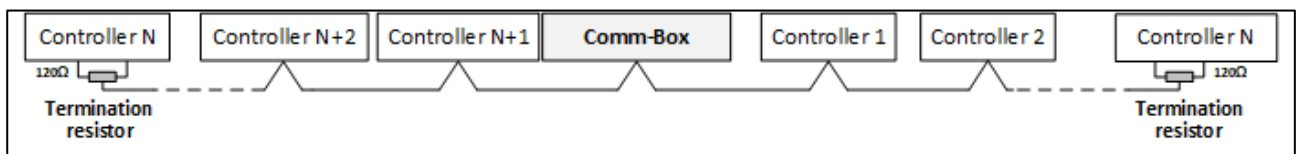


Figure 17: Topology 2: Controller Termination

3.10.2 TERMINATION WIRING

- CommBox: Install the termination resistor in the Junction Box.

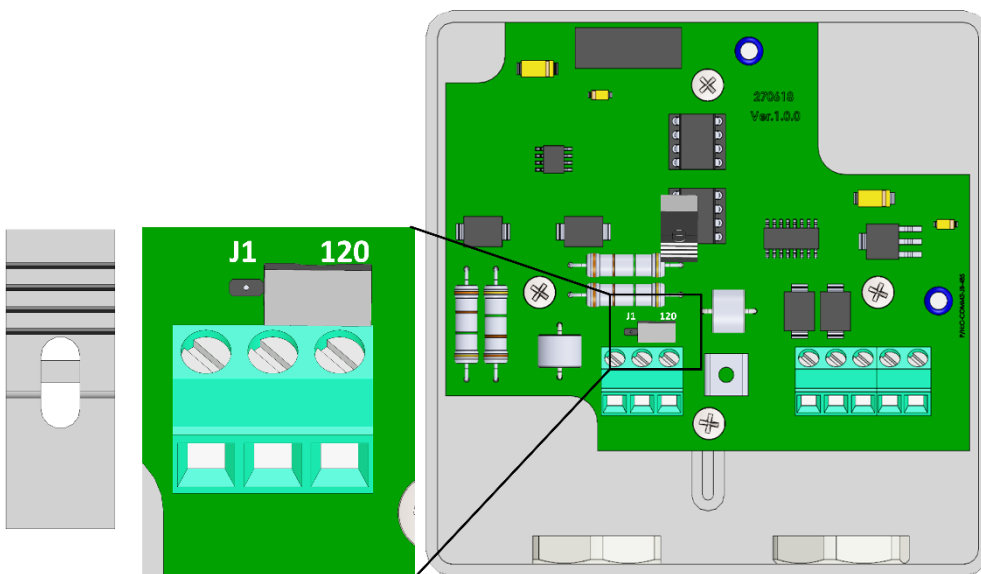





Figure 18: Junction Termination

4 Specifications

- CommBox
- Junction Box

4.1 CommBox

Power Supply	
Power Input	<ul style="list-style-type: none"> • 24V DC +/-20% • 1 x 24V, 60W power adapter
CAUTION Unit should be powered by Limited Energy Source per IEC 61010-1 or Limited Power Source per IEC 60950-1 or IEC 62368-1	
Temperature Range	
Operating Temperature Range	0° to +50° C / 32° to 125° F
Storage Temperature Range	-10° to +70° C / 14° to 158° F
Environmental Specifications	
<ul style="list-style-type: none"> • Indoor use only • Altitude: -400 m to 2000 m • Relative Humidity: 0 – 95% • Main supply voltage fluctuation up to 5% • Overvoltage category: OVCII • Pollution degree: PD2 • Ingress Protection: IPX0 	
Housing	
Metal Box Dimensions (W x H x D)	162 x 26 x 150 mm (without wall-mount bracket)
SIM Card Requirements	
Celphone SIM Card	4G
Cell Package	10 GB minimum
Certification	
  	

4.2 Junction Box

Power Supply	
Junction Box Power Input	24 VDC, 30 mA
CAUTION Unit should be powered by Limited Energy Source per IEC 61010-1 or Limited Power Source per IEC 60950-1 or IEC 62368-1	
Temperature Range	
Operating Temperature Range	0 ° to +45 ° C / 32 ° to 113 ° F
Storage Temperature Range	-10 ° to +70 ° C / 14 ° to 158 ° F
Environmental Specifications	
<ul style="list-style-type: none">• Indoor use only• Altitude: -400 m to 2000 m• Relative Humidity: 0 – 90%• Main supply voltage fluctuation up to 5%• Overvoltage category: OVCII• Pollution degree: PD2• Ingress Protection: IP50	

5 Group Management

When using the CommBox to connect to your farm(s), you must:

- [create \(activate\) a farm](#)
- [invites users](#)

5.1 What is a Group

A group is the virtual device used to manage your farms. Using the RotemNet Web application, the group manager defines each user's permissions (which farms he can see and what functions he can carry out).

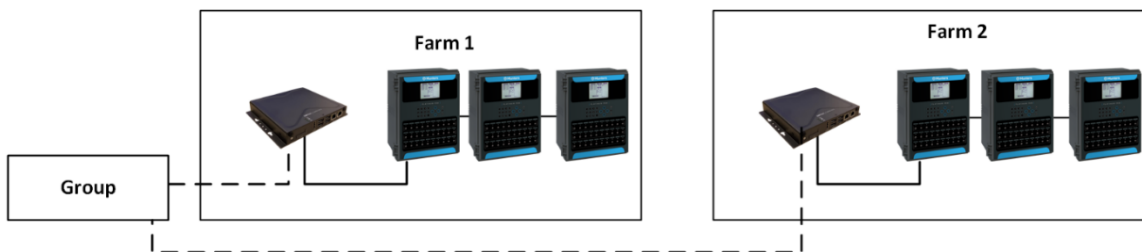


Figure 19: Group Example

As an example, an account manager has sent up two Groups and wants to add three different users to his account (Figure 20).

1. User 1 is assigned access rights to Farm 1.
2. User 2 is assigned access rights to Farm 2.
3. User 3 is assigned access rights to Farm 1 and Farm 2.
4. In addition, User 1 is also assigned access rights to Farm 3, which is in an entirely different group.

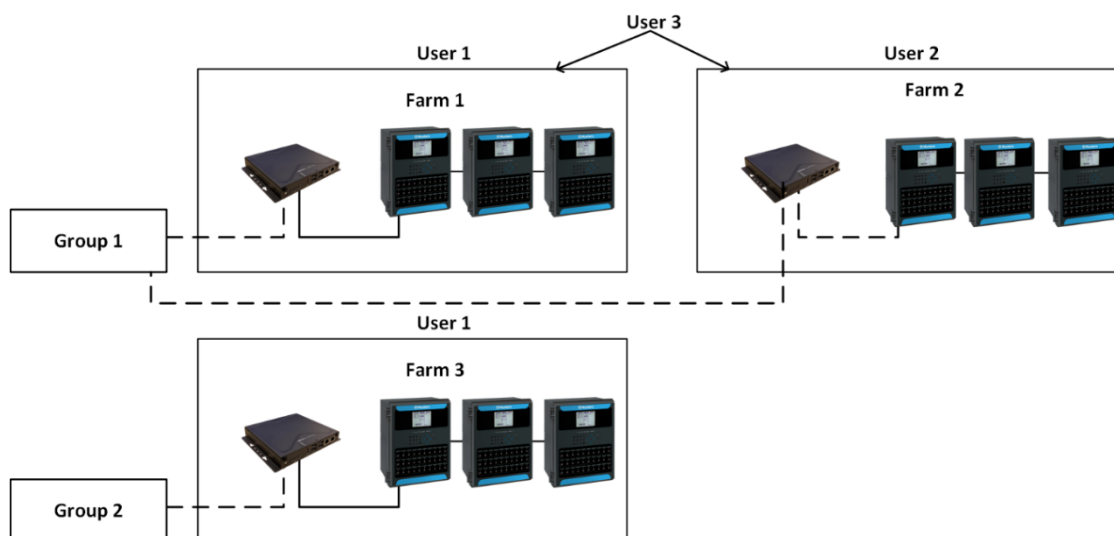


Figure 20: User Assignment

Any combination is possible.

5.2 Activating the Farm

The first time that you power up a CommBox, you need to activate a farm.

1. Connect the CommBox to a screen, keyboard, and mouse. Apply power. The Farm Activation screen appears.

House Number	House Name	House Number	House Name
<input type="checkbox"/> 1	House 1	<input type="checkbox"/> 33	House 33
<input type="checkbox"/> 2	House 2	<input type="checkbox"/> 34	House 34
<input type="checkbox"/> 3	House 3	<input type="checkbox"/> 35	House 35
<input type="checkbox"/> 4	House 4	<input type="checkbox"/> 36	House 36
<input type="checkbox"/> 5	House 5	<input type="checkbox"/> 37	House 37
<input type="checkbox"/> 6	House 6	<input type="checkbox"/> 38	House 38
<input type="checkbox"/> 7	House 7	<input type="checkbox"/> 39	House 39
<input type="checkbox"/> 8	House 8	<input type="checkbox"/> 40	House 40
<input type="checkbox"/> 9	House 9	<input type="checkbox"/> 41	House 41
<input type="checkbox"/> 10	House 10	<input type="checkbox"/> 42	House 42
<input type="checkbox"/> 11	House 11	<input type="checkbox"/> 43	House 43
<input type="checkbox"/> 12	House 12	<input type="checkbox"/> 44	House 44
<input type="checkbox"/> 13	House 13	<input type="checkbox"/> 45	House 45
<input type="checkbox"/> 14	House 14	<input type="checkbox"/> 46	House 46
<input type="checkbox"/> 15	House 15	<input type="checkbox"/> 47	House 47
<input type="checkbox"/> 16	House 16	<input type="checkbox"/> 48	House 48

Figure 21: Activation Screen

2. Fill in the fields:

- Name: Type in the farm name.
- Farm Type: Choose the type from the drop-down list.
- Baud rate: This rate must be the same throughout the network. Munters recommends
 - using the default baud rate, 9600, for wired connections.
 - setting the baud rate at 19200 for RLINK One connections.
- The Com Port must be Com Port 1.
- Contact info: This is optional information which enables Munters to contact you if needed.

NOTE You can edit these settings in RotemNet Web.

- Mark the checkboxes of the houses to be scanned. Mark at least one house. As an option, the house names can be edited.

3. Click Activate. A pop up appears asking if you want to scan your farm houses.

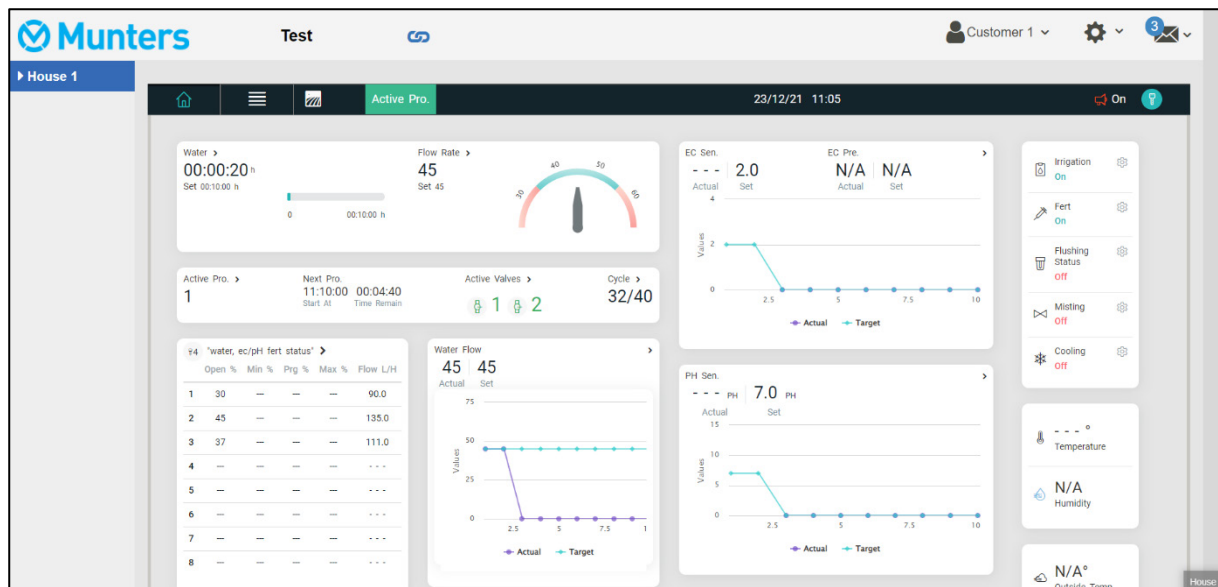
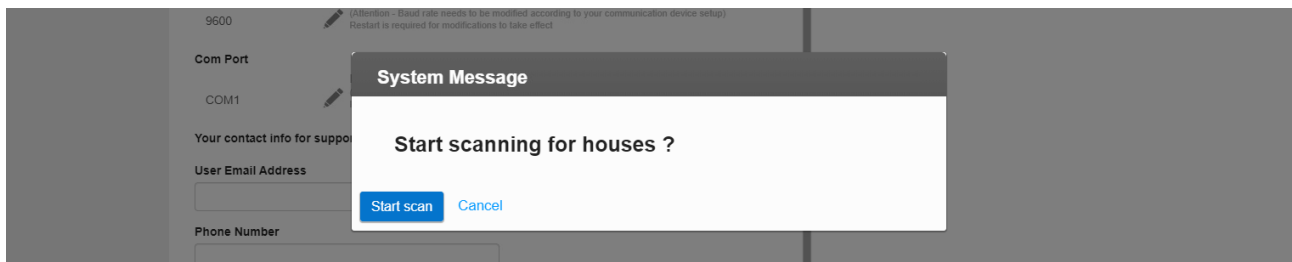


Figure 22: Green Field Dashboard

4. Click the settings icon (⚙️) and go to farm settings. The following screen appears.

Munters Test

House 1

Farm settings External Devices Push Notifications Local Users Data Collect Activity log

The farm is not connected to the web **Connect** Software Update

Farm Name
Test

Farm Type
Irrigation

Baud Rate
9600 Edit
(Attention - Baud rate needs to be modified according to your communication device setup)
Restart is required for modifications to take effect

Com Port
COM1 Edit
(Attention - Com Port needs to be modified according to your communication device setup)
Restart is required for modifications to take effect

Your contact info for support

User Email Address
[Input Field]

Phone Number
[Input Field]

Address
[Input Field]

Date And Time
Thursday, December 23, 2021 12:48 AM Change Date And Time

Time zone
(UTC-08:00) Pacific Time (US & Canada)

Number Of Houses To Be Scanned Edit

Figure 23: Initial Farm Settings Screen

5. Click Connect. The following screen appears.

ROTEM
RotemNet Web

Selected Region
AMERICA

Language
English

User Email Address
My RotemNetWeb User Email address

Password
[Input Field]

Login DEMO

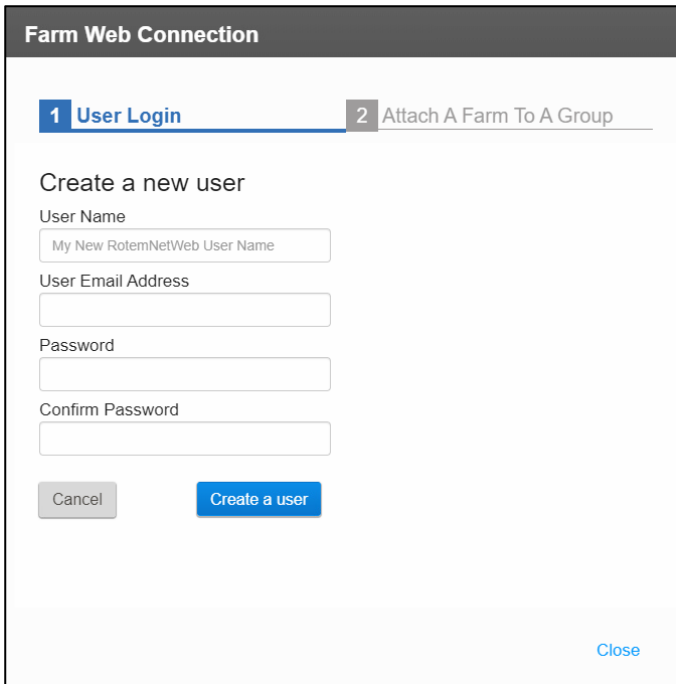
Not registered yet ? [Sign Up Now](#)
[Forgot Password](#)

Figure 24: Initial Sign In Form

6. From the drop down lists, select the region and language.

CAUTION If you are using the Irrigation application, select America only.

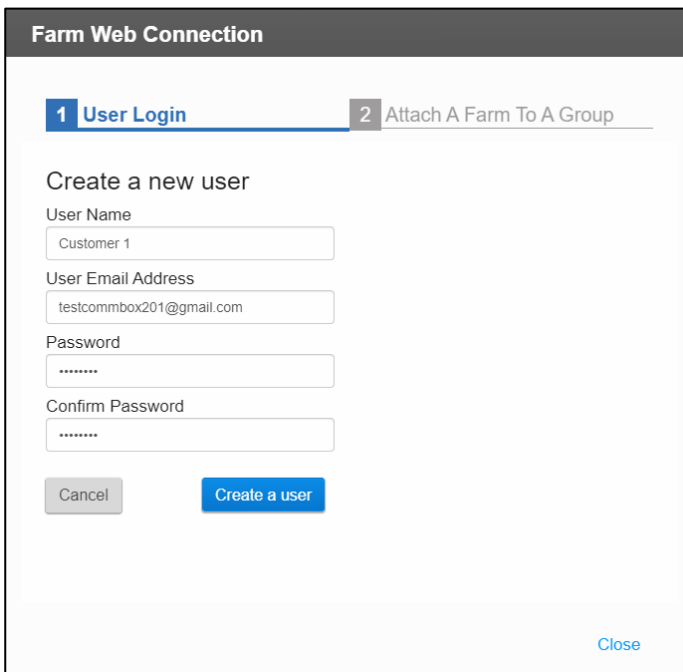
7. Click Sign Up Now. The following screen appears.



The screenshot shows a web interface titled "Farm Web Connection". At the top, there are two tabs: "1 User Login" (active) and "2 Attach A Farm To A Group". Below the tabs, the section "Create a new user" contains four input fields: "User Name" (with placeholder text "My New RotemNetWeb User Name"), "User Email Address", "Password", and "Confirm Password". At the bottom left of the form are two buttons: "Cancel" and "Create a user". At the bottom right of the screen is a "Close" link.

Figure 25: Create a New User Screen

8. Fill in all fields and click Create a User.



This screenshot shows the same "Farm Web Connection" interface as Figure 25, but with example data entered into the form fields. The "User Name" field contains "Customer 1", the "User Email Address" field contains "testcommbox201@gmail.com", and both the "Password" and "Confirm Password" fields contain "*****". The "Cancel" and "Create a user" buttons remain at the bottom left, and the "Close" link is at the bottom right.

Figure 26: Create a User (Example)

9. Click Attach a Farm to A Group. The following screen appears:

Farm Web Connection

1 User Login

2 Attach A Farm To A Group

Attach This Farm To A Farms Group

What Is Farm's Group ?
A virtual unit that combines farms together and enables to manage multiple farms easily.
Note:Each farm must be attached to a farm group even if the group consist **one farm only**.
A farm can be attached to more then one group.

Please select one or more groups from your list of groups below to be attached to your new farm or a new group.

<input type="checkbox"/>	Group Name	Owner
<input checked="" type="checkbox"/>	New Farm Group Name	Customer 1

Add a Group

Close

Attach To Group

Figure 27: Group Screen (1)

10. Write the name of the farm group that you want to create and click **Attach to Group**.

Farm Web Connection

1 User Login

2 Attach A Farm To A Group

Attach This Farm To A Farms Group

What Is Farm's Group ?
A virtual unit that combines farms together and enables to manage multiple farms easily.
Note:Each farm must be attached to a farm group even if the group consist **one farm only**.
A farm can be attached to more then one group.

Please select one or more groups from your list of groups below to be attached to your new farm or a new group.

<input checked="" type="checkbox"/>	Group Name	Owner
<input checked="" type="checkbox"/>	Group 1	Customer 1

Add a Group

Close

Attach To Group

Figure 28: Farm Attached to Group

NOTE To create new groups, click **Add a Group**.

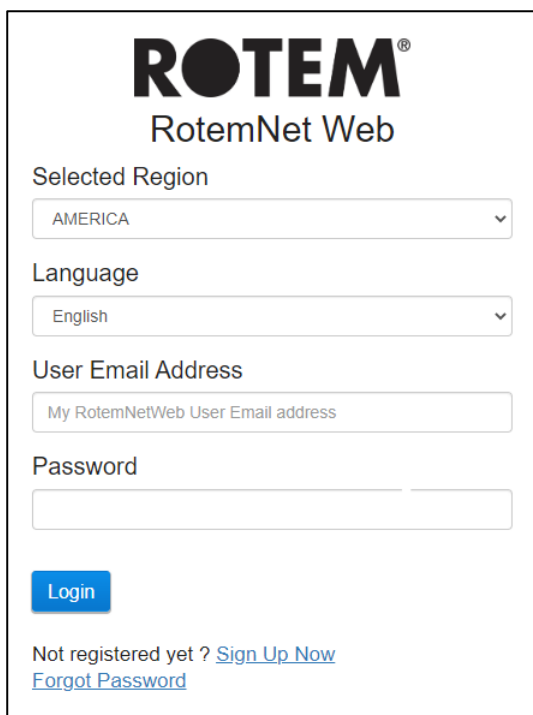
5.3 Invite Users

The following section details how to invite news users and define the user privileges.

- Sending an Invitation
- Defining User Privileges

5.3.1 SENDING AN INVITATION

1. The person to be invited must be registered in the system.
 - If the user has signed up to rotemnetweb.com, proceed to Step 2.
 - a. If the invitee is not registered in the system, go to <https://rotemnetweb.com/>.



The image shows the RotemNet Web login interface. At the top is the 'ROTEM' logo with a registered trademark symbol, followed by 'RotemNet Web'. Below this are two dropdown menus: 'Selected Region' with 'AMERICA' selected, and 'Language' with 'English' selected. There are two input fields: 'User Email Address' with placeholder text 'My RotemNetWeb User Email address', and 'Password'. A blue 'Login' button is positioned below the password field. At the bottom, there is a link 'Not registered yet ? Sign Up Now' and another link 'Forgot Password'.

- b. Click **Sign Up Now**.
 - c. Fill out the fields and click **Sign Up**.
 - d. Proceed to Step 2.
2. Disconnect the computer screen from the CommBox and reconnect it to a computer (alternatively use a different computer).
 3. Sign in (using the email address and password that you used during activation) to the CommBox via the web at <https://www.rotemnetweb.com/>.

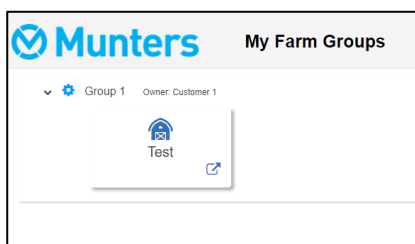


Figure 29: My Farm Groups

4. Click the gear icon . The following screen appears listing the active users.

Munters My Farm Groups Customer 1 Settings

Group: Group 1 Owner: Customer 1

Details **Users** Sub Groups Farms

Active Invited Removed

Save

Email	Name	Access Type
testcommbox201@gmail.com	Customer 1	Admin

Figure 30: Active Users Screen

5. Click Invited.

Munters My Farm Groups Customer 1 Settings

Group: Group 1 Owner: Customer 1

Details **Users** Sub Groups Farms

Active **Invited** Removed

+ Add Save

Email	Name	Access Type	Status	Sent On
-------	------	-------------	--------	---------

Figure 31: Add a New User Screen

6. Click Add.

- Fill out the fields.
- Define the user privileges (see below for details).
- Click Invite. The invitee receives the following email:

Dear Customer ,

User name: ben.

You are welcome to connect to account name: Group 1.

Please [accept this account](#) in the RotemNetWeb application .

Once you accept the connection you will be able to view/manage the account.

Yours,
RotemNetWeb team

Figure 32: Email Invitation (Example)

5.3.2 DEFINING USER PRIVILEGES

Defining the privileges defines what functions the user can perform in both the CommBox and in the GreenApp.

- **CommBox User Rights:**
 - ♦ Admin: User can edit all unit parameters including functions related to farm settings and farm ownership.
 - ♦ Read/Write: User can edit all unit parameters but cannot perform any functions related to farm settings. (Farm Settings do not appear for users having Read/Write access).

- ♦ Read Only: User can only view the CommBox units' parameters; no changes can be made.
- ♦ Unauthorized: TBD. (Currently used as read only)
- ♦ Support: TBD. (Currently used as read only)
- **Web App User Rights:**
 - ♦ Farm Owner/Admin: User can edit all unit parameters including functions related to farm settings (including attaching a farm to a group) and inviting new users.
 - ♦ Read/Write: User can edit all unit parameters but cannot perform any functions related to farm settings (not visible).
 - ♦ Read Only: User can only view the units' parameters; no changes can be made.
 - ♦ Unauthorized: TBD. (Currently used as read only)
 - ♦ Support: TBD. (Currently used as read only)

5.4 Local Log In

In the event that:

- You restart your system
- CommBox logs off (this can happen automatically if you are not using system)
- Power goes off

you need to log on to the CommBox locally. The username and password of this login are different from the ones used when logging on to the Web.

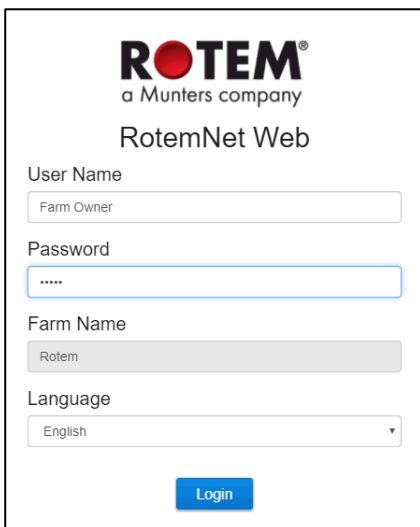


Figure 33: Local Log In

- Enter the user name and password. The defaults are:
 - User name: "Farm Owner"
 - Password: "admin"

NOTE The user name cannot be changed. You can change the password after logging in.

NOTE After logging in locally, you will need to log in to the Web.

6 RotemNet Web

The following sections describe how to use the RotemNet Web functions. Controller functions are described in the product manuals.

- Sign In
- My Farm Groups
- Error! Reference source not found.
- RotemNet Web Functionality
- Error! Reference source not found.
- About Tab

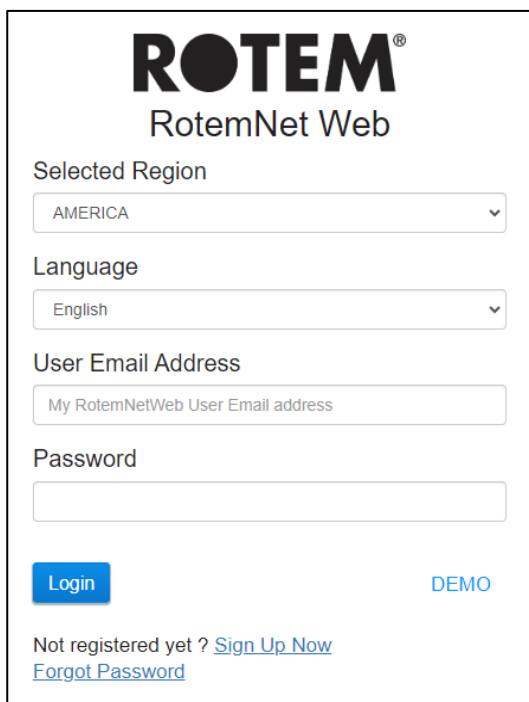
6.1 Sign In

There are two ways to sign in:

- Standard Login
- Private Server

6.1.1 STANDARD LOGIN

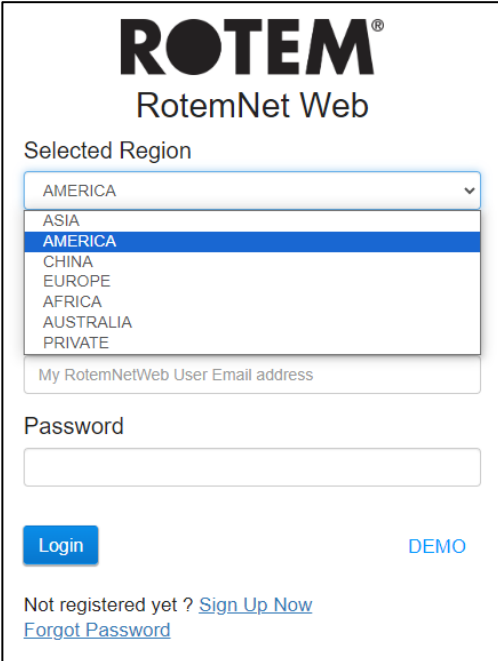
1. Go to RotemNetWeb.Com.



The screenshot shows the RotemNet Web login interface. At the top is the Rotem logo and the text 'RotemNet Web'. Below this are two dropdown menus: 'Selected Region' with 'AMERICA' selected, and 'Language' with 'English' selected. Under these are two input fields: 'User Email Address' with the placeholder text 'My RotemNetWeb User Email address', and 'Password'. At the bottom left is a blue 'Login' button, and at the bottom right is a 'DEMO' link. At the very bottom, there is a link for 'Not registered yet ? Sign Up Now' and a link for 'Forgot Password'.

Figure 34: Standard Sign In

2. From the drop-down list, select the region closest to you. Proper selection is required to ensure faster response time.



The screenshot shows the RotemNet Web login interface. At the top is the Rotem logo and the text 'RotemNet Web'. Below this is a 'Selected Region' dropdown menu which is open, showing a list of regions: AMERICA (highlighted), ASIA, CHINA, EUROPE, AFRICA, AUSTRALIA, and PRIVATE. Below the dropdown is a text input field for 'My RotemNetWeb User Email address'. Underneath that is a 'Password' input field. At the bottom left is a blue 'Login' button, and at the bottom right is a blue 'DEMO' link. At the very bottom, there is a link for 'Not registered yet ? Sign Up Now' and a link for 'Forgot Password'.

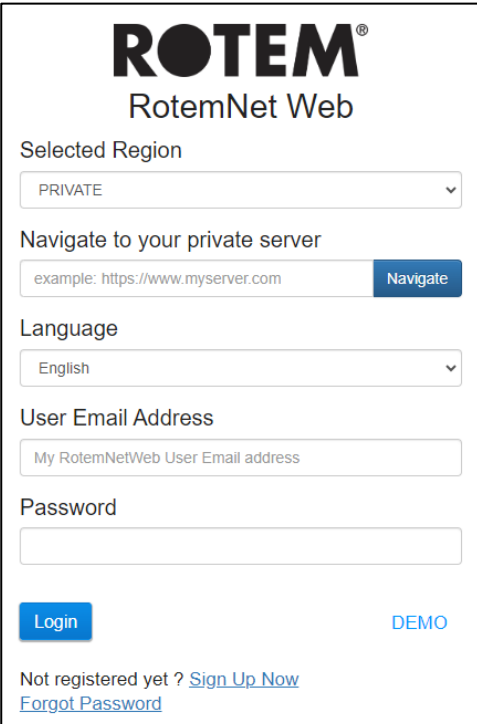
Figure 35: Region Selection

3. Enter the email address and password, and click Login. After signing in, the [My Farm Groups](#) screen appears:

6.1.2 PRIVATE SERVER

If your farm is connected to a private server system:

1. Click Private from the Selected Region. The following screen appears.



The screenshot shows the RotemNet Web login interface for private server sign-in. At the top is the Rotem logo and the text 'RotemNet Web'. Below this is a 'Selected Region' dropdown menu with 'PRIVATE' selected. Below the dropdown is a section titled 'Navigate to your private server' which contains a text input field with the example 'https://www.myserver.com' and a blue 'Navigate' button. Below this is a 'Language' dropdown menu with 'English' selected. Underneath that is a 'User Email Address' input field with the placeholder 'My RotemNetWeb User Email address'. Below that is a 'Password' input field. At the bottom left is a blue 'Login' button, and at the bottom right is a blue 'DEMO' link. At the very bottom, there is a link for 'Not registered yet ? Sign Up Now' and a link for 'Forgot Password'.

Figure 36: Private Server Sign In

2. Enter the server information.

NOTE Dealers provide this information, if relevant.

- After signing in, the [My Farm Groups](#) screen appears:

6.2 My Farm Groups

Click the My Farm Groups to access all groups to which you are participating in, in any capacity. You can reach this screen from the dropdown menu.

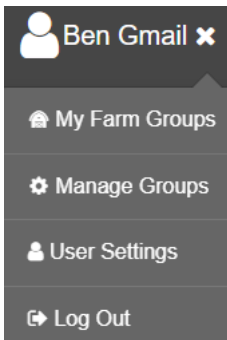


Figure 37: User Group Access

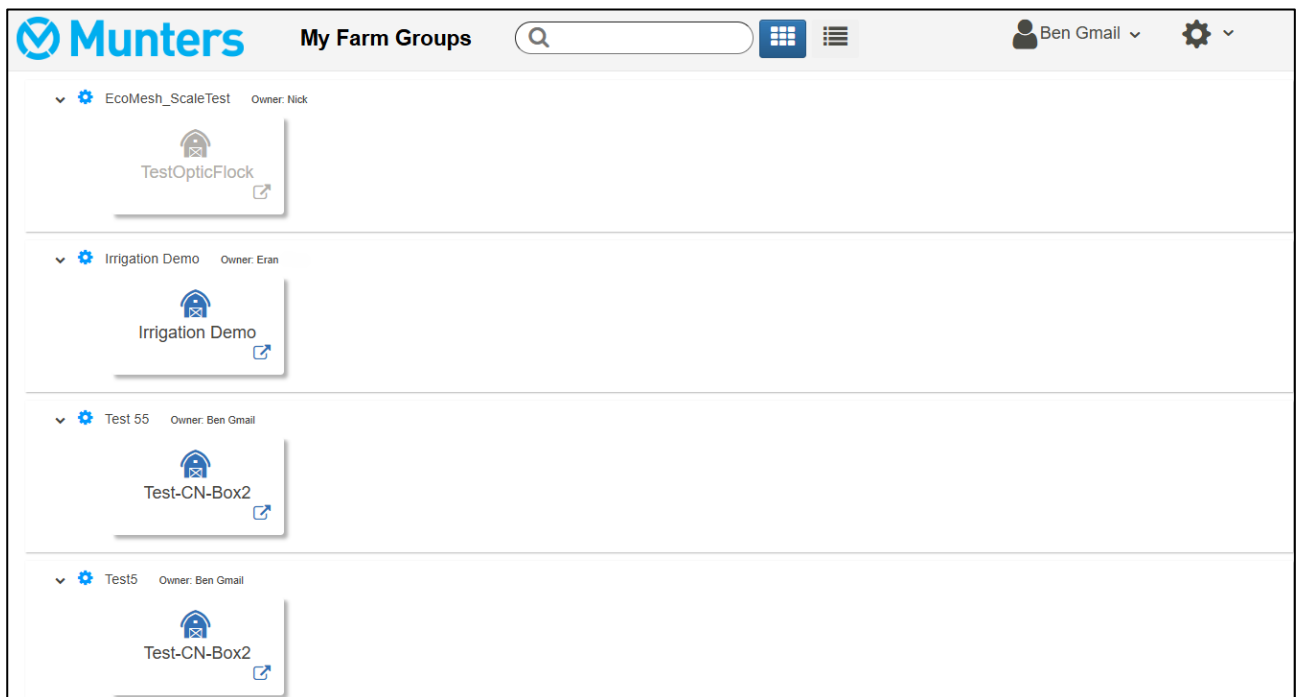


Figure 38: My Groups Screen

The screen shows:

- the groups and their status (on-line/off-line).

the number of active alarms in each active farm (if there are alarms).

- To find a particular farm group, search for the name in the search bar.



Figure 39: Search Function

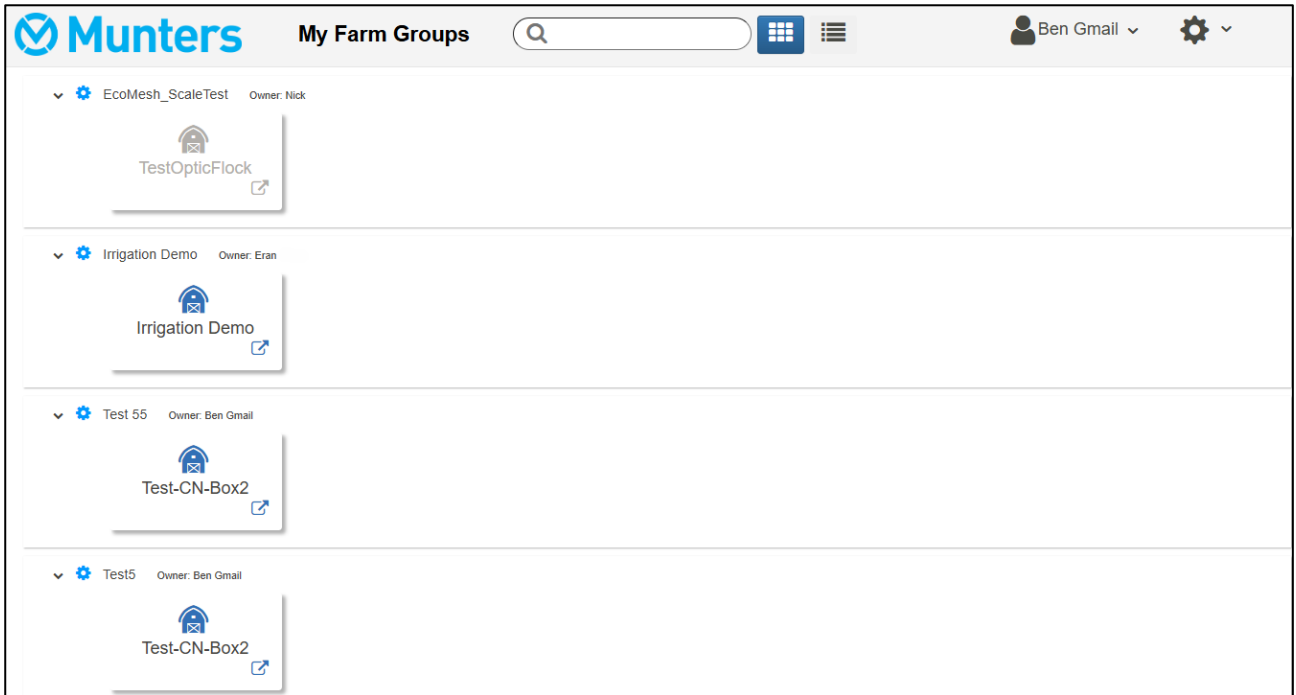


Figure 40: Grid View

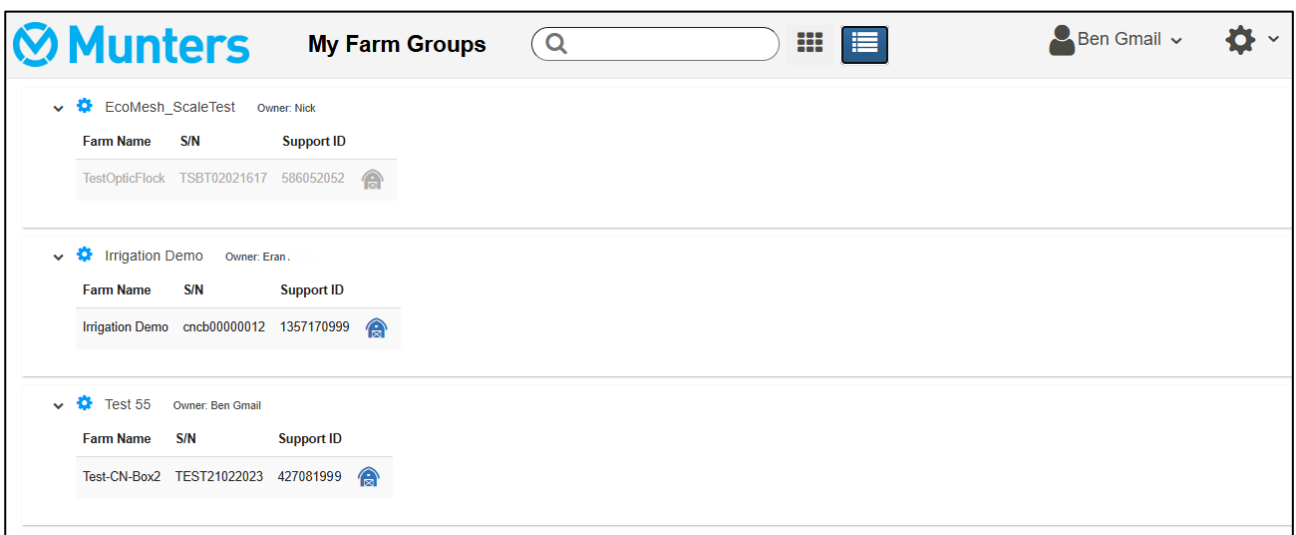



Figure 41: List View

- Click any icon to go to the group's farms (refer to My Farm Groups, page 31).
- Click the settings icon  to view and manage the group's users and farms (Manage Groups, page 33).

6.2.1 DETAILS (OPTIONAL)

On each group, click the settings icon and fill in details about the group as required.

Munters My Farm Groups Ben Gmail ⚙️

Group: Irrigation Demo
Owner: Eran

Details Users Sub Groups Farms

Group Name: Irrigation Demo Group Owner: Eran Created On: 04/10/2021 13:27

Comments

Figure 42: Details Screen

6.2.2 FARMS

The Farms screen lists the farms in this group.

Munters My Farm Groups Ben Gmail ⚙️

Group: Irrigation Demo
Owner: Eran Alon

Details Users Sub Groups Farms

Farm Name: Irrigation Demo

Figure 43: List of Farms Screen

6.3 Manage Groups

Manage Groups enables many of the same functions as the My Farm Groups screen. In addition, you can create new groups from this page.

Munters My Farm Groups Search Ben Gmail ⚙️

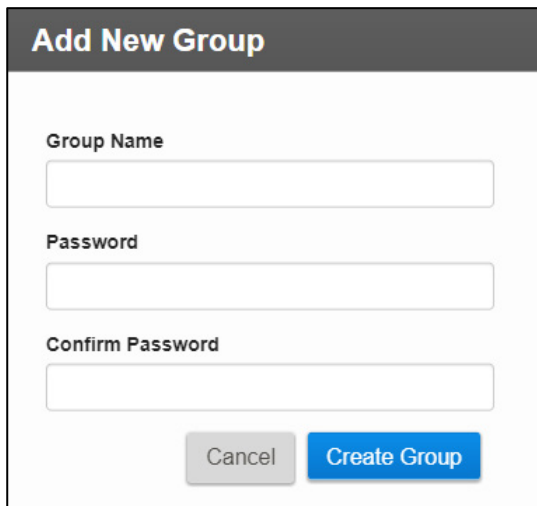
Active Groups All Groups

Add New Group

- ▼ ⚙️ EcoMesh_ScaleTest Owner: Nick
TestOpticFlock
- ▼ ⚙️ Irrigation Demo Owner: Eran
Irrigation Demo
- ▼ ⚙️ Test 55 Owner: Ben Gmail
Test-CN-Box2

Figure 44: Manage Groups Screen

1. To create a new group, click **Add New Group**. Fill in the fields.

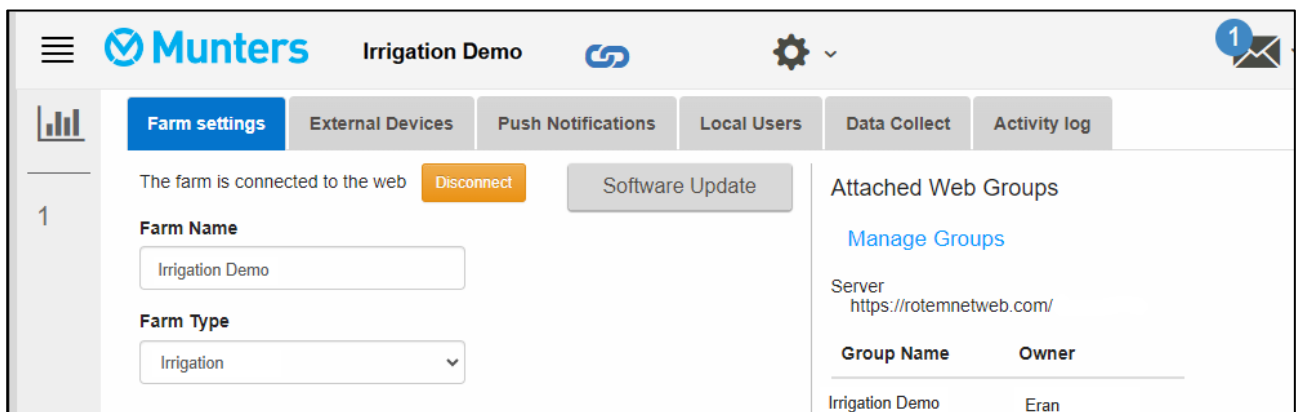


The 'Add New Group' screen features a dark header with the title 'Add New Group'. Below the header, there are three input fields: 'Group Name', 'Password', and 'Confirm Password'. At the bottom, there are two buttons: a grey 'Cancel' button and a blue 'Create Group' button.

Figure 45: Add New Group screen

2. After creating the group, add farms to the group. Go to the Farm Settings screen.

NOTE Only a farm owner/administrator connected to a farm locally can attach the farm to a group.



The 'Farm Settings' screen is part of the Munters web interface. The top navigation bar includes the Munters logo, 'Irrigation Demo', a link icon, a settings gear, and a notification bell with a '1'. Below the navigation bar, there are tabs: 'Farm settings' (active), 'External Devices', 'Push Notifications', 'Local Users', 'Data Collect', and 'Activity log'. The main content area shows 'The farm is connected to the web' with a 'Disconnect' button and a 'Software Update' button. Below this, there are input fields for 'Farm Name' (containing 'Irrigation Demo') and 'Farm Type' (a dropdown menu with 'Irrigation' selected). On the right, there is a section titled 'Attached Web Groups' with a 'Manage Groups' link. Below this, the server URL 'https://rotemnetweb.com/' is displayed. At the bottom right, there is a table with two columns: 'Group Name' and 'Owner'.


Group Name	Owner
Irrigation Demo	Eran

Figure 46: Farm Settings Screen

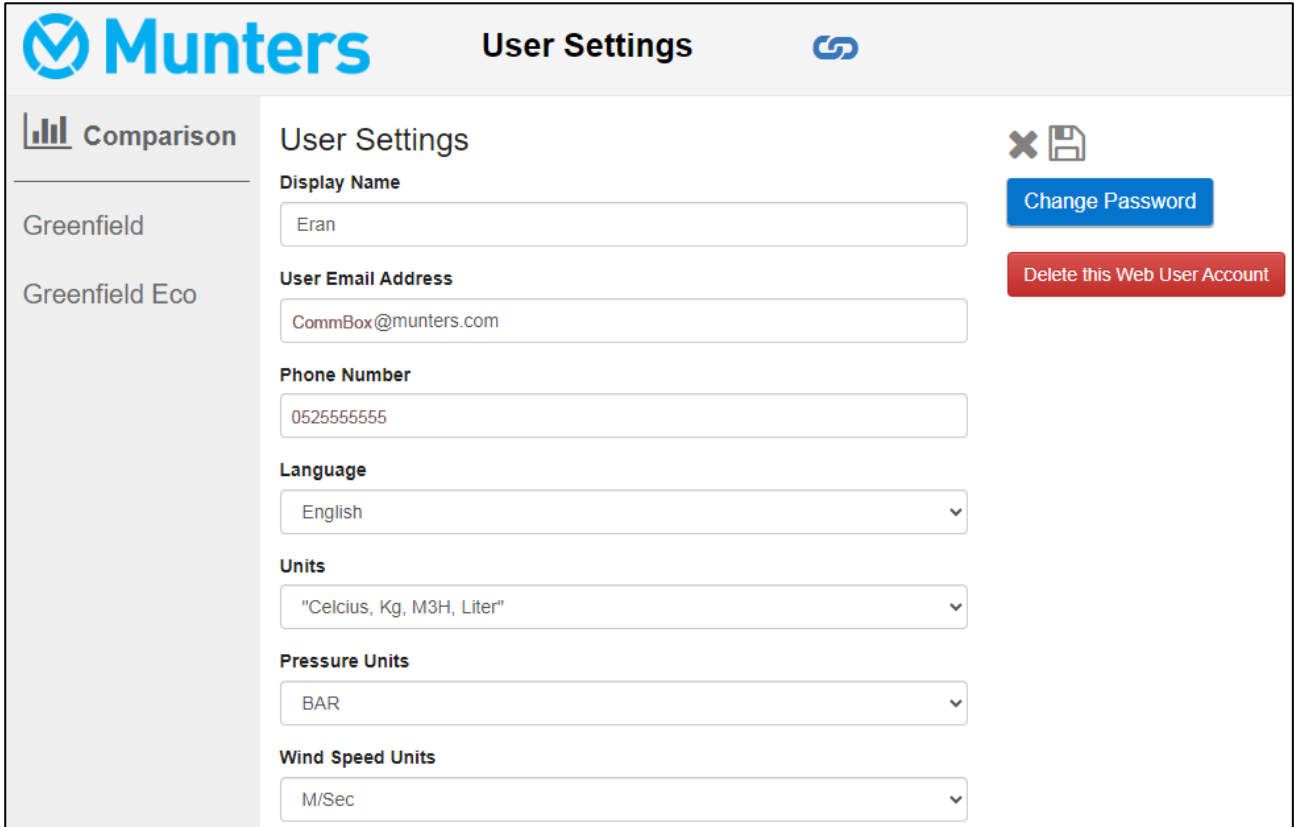
3. Click **Manage Groups** and attach the farm to a group (refer to **Error! Reference source not found.** page **Error! Reference source not found.**).



6.4 User Settings

This screen defines how information appears on the screen. In Farm Owner, select

 User Settings

. The following screen appears.



- To edit, click . Fill in the following fields as required.
 - Display name: Name that appears on the User Setting screen.
 - User email address
 - Phone number
 - Language: Chose from the drop-down list
 - Unit types: Metric or English
 - Temp Units: Celsius or Fahrenheit
 - Pressure Units
 - Wind Speed Units
 - Disable or enable standby by mode (if the latter, define the amount of time that needs to pass before the mode is activated).
- Click  to save any changes.

6.5 RotemNet Web Functionality

The following section describes the RotemNet Web functions.

Farm Owner
Farm Settings
House Scan
Diagnostics
About
Log Out


- Farm Settings Tab
- House Scan Tab
- Diagnostics
- About Tab

NOTE Only the farm owner can view the Farm Owner, Farm Settings, and House Scan tabs.

6.5.1 HOUSE SUMMARY AND COMPARISON

Click Comparison to view a summary of the controllers' activity.

Figure 47: Comparison Houses Screen

- Click on House to go to the controller functions.
- Click on  to configure RotemNet Web functionality.
- Click on the user name to configure the user definitions.

Munters Irrigation Demo				
Customize Ben Gmail				
Comparison	House	Greenfield	Greenfield Eco	
Greenfield		Day	Day	
Greenfield Eco				
	Time	17:46	17:47	
	Average Temperature	---	---	
	Static Pressure	---	---	
	Inside Humidity	---	---	
	Tunnel Temperature	---	---	

Figure 48: Comparison Screen

6.5.2 COMPARISON SCREEN APPEARANCE

Version 4.7.2.X supports defining the background colors of the Status, Sensors, and Devices sections.

NOTE Only owners/administrators can perform this function.

1. In the settings icon, click **Customize**.

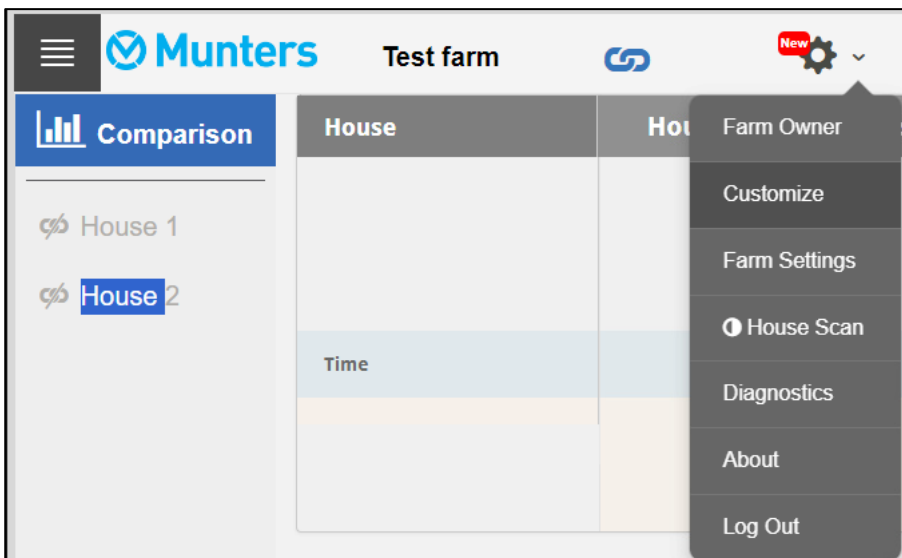


Figure 49: Customize Feature

2. For each section, select the background color.

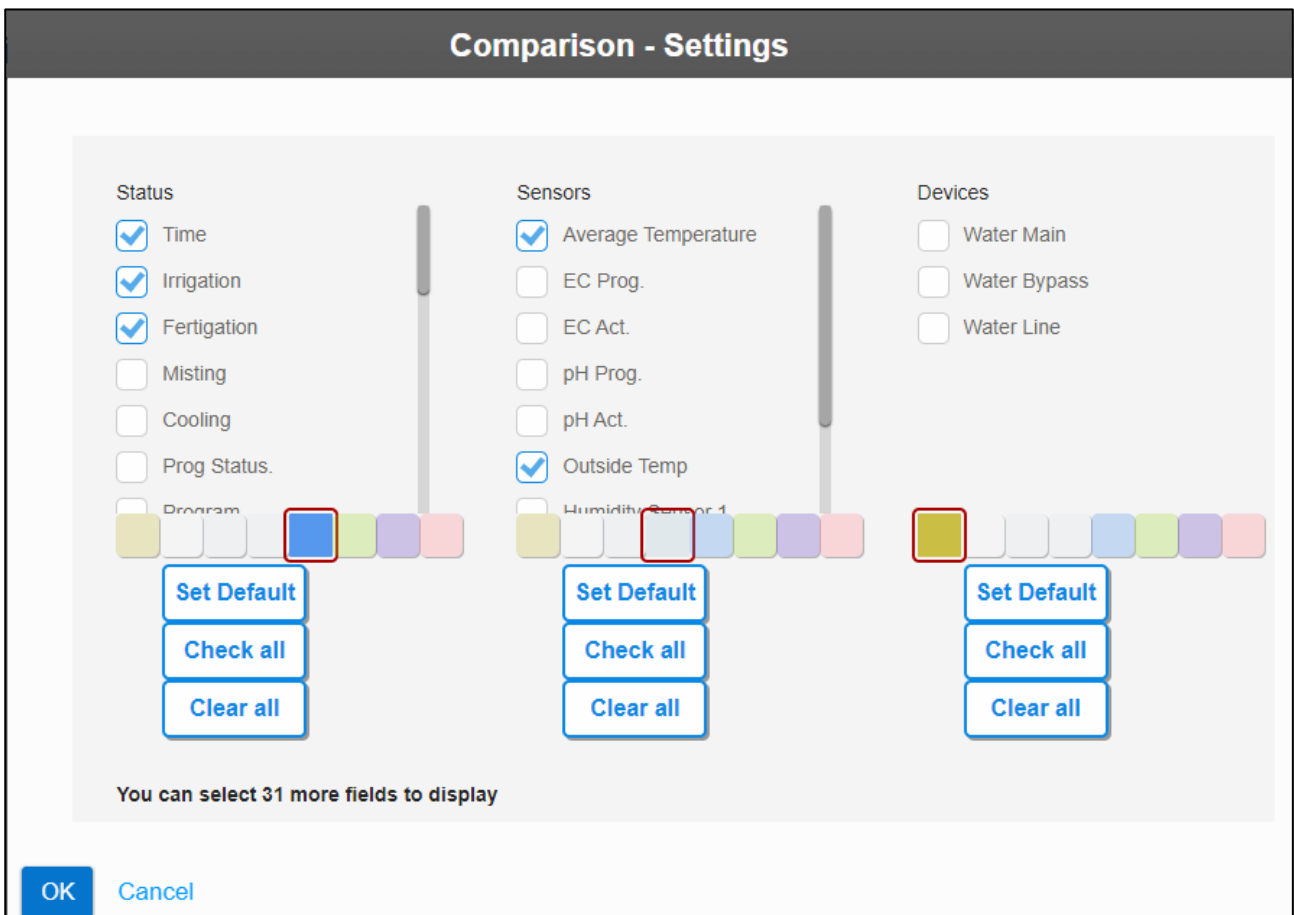


Figure 50: Comparison Settings Screen

3. The screen displays the background colors.

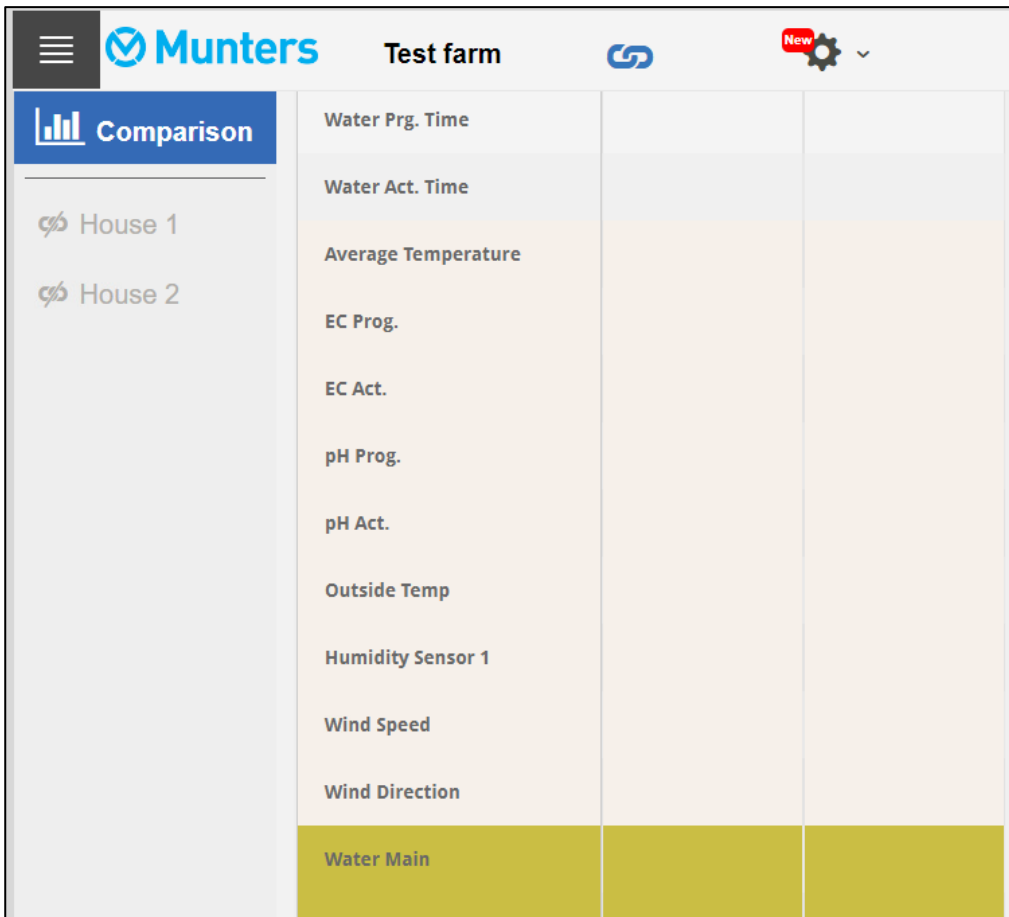


Figure 51: Color Selection Screen

6.5.3 ROTEMNET SCREEN APPEARANCE

The screen appearance depends on how the user connects to the CommBox Plus, as a local user or via the internet. Users connected locally have access to additional functionality.

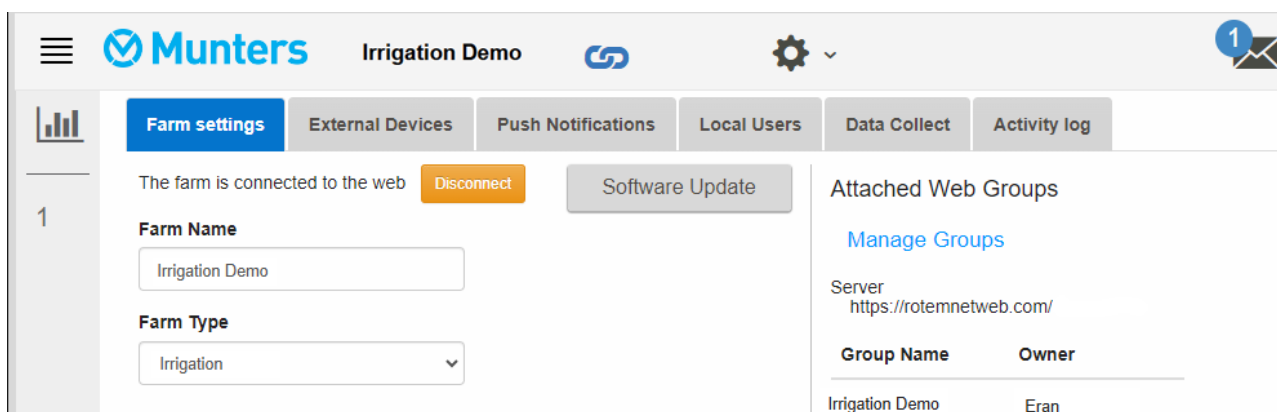


Figure 52: Local Connection

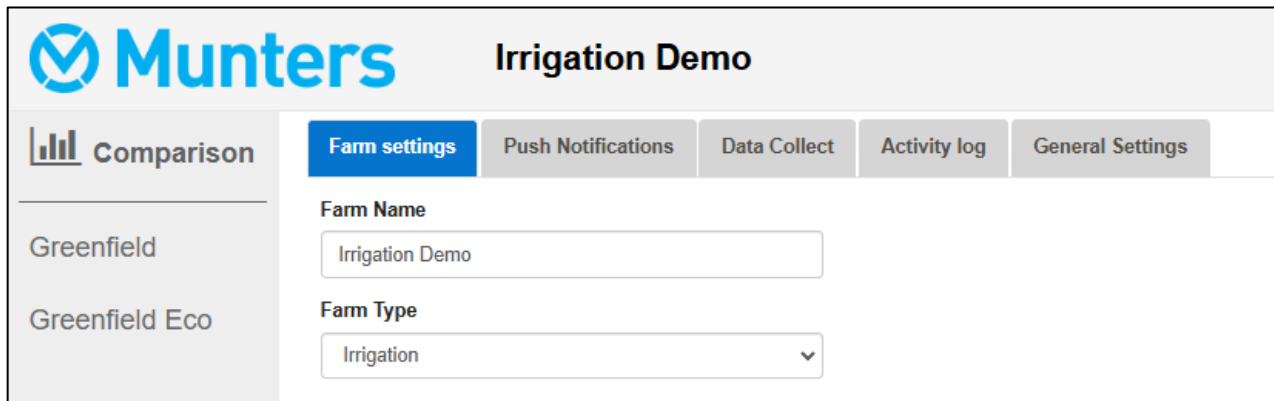


Figure 53: Web Connection

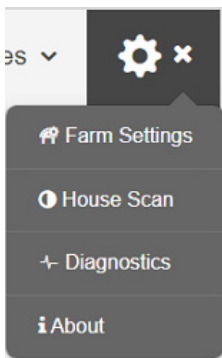


Figure 54: Local Connection Settings

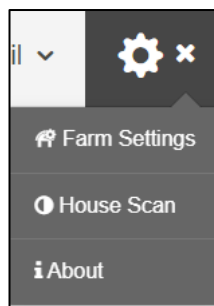


Figure 55: Web Connection Settings (administrator)

In addition, when connected via the web, the user has easy access to his/her groups (Refer to My Farm Groups, page 31).

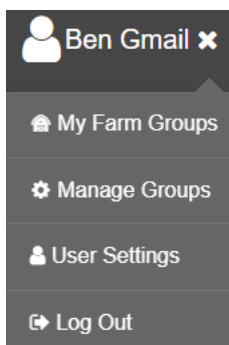


Figure 56: User Group Access

6.5.4 FARM SETTINGS TAB

- Farm Settings
- External Devices
- Push Notifications
- Local Users
- Data Collect
- Activity Log

NOTE The “Push Notifications” and “Local Users” tabs appear only on a computer screen connected directly to the CommBox Plus.

6.5.4.1 Farm Settings

Use this screen to define functions related to CommBox Plus's connection to your farm.

The screenshot shows the Munters web interface for 'Oren irrigation demo'. The top navigation bar includes the Munters logo, the farm name, and a user profile 'Farm Owner'. Below this is a tabbed interface with 'Farm settings' selected. The left sidebar lists 'GreenField 1', 'GreenField 2', and 'GreenField ECO3'. The main content area for 'Farm settings' includes: a status bar showing 'The farm is connected to the web' with a 'Disconnect' button and a 'Software Update' button; a 'Farm Name' input field containing 'Oren irrigation demo'; a 'Farm Type' dropdown menu set to 'Irrigation'; two toggle switches for 'Enable storing history data on local device automatically' and 'Enable broadcasting weather station data to network controllers', both set to 'On'; expandable sections for 'Comm Port Connection' and 'Your contact info for support'; and a table titled 'Number Of Houses To Be Scanned' with an 'Edit' button. The table has four columns: 'House Number', 'House Name', 'House Number', and 'House Name'. It contains three rows of data: (1, GreenField 1), (2, GreenField 2), and (3, GreenField ECO3).

House Number	House Name	House Number	House Name
1	GreenField 1		
2	GreenField 2		
3	GreenField ECO3		

Figure 57: Farm Settings Screen

- **Farm Name:** This is the name that appears on your screen.
- **Connect/Disconnect:** This function enables disconnect from the current farm from the internet and reconnecting it via the Log-in screen).

NOTE This function only appears on screens locally connected to the CommBox Plus.

- **Farm Type:** Select Irrigation.
- **(Version 4.7.4.19) Enable storing history data on local drive automatically:**
 - When enabled, Comm-Box stores history data automatically in the CommBox.
 - When this function is not enabled, data is stored on the controller only when the user views a history page. For example, sensor data is stored when the user views a sensor history screen.
- **(Version 4.7.4.19) Enable broadcasting weather station data to network:** If a Green Field Controller is defined as the master controller, it can share weather data with controllers defined as slave controllers in that network (refer to the Green Field Installation manual). When this function is enabled, that weather data appears in the CommBox application.
- **Farm Type:** Select Irrigation. Make sure that the definition matches the CommBox Plus type!
- **Com Port Connection**
 - **Baud rate:** This rate must be the same throughout the network. Munters recommends keeping the rate at the default speed, 9600.
 - **Com Port:** Define the COM port. COM1 is the default.

- **Contact information (optional):** This information will be used by Munters to contact users if there is a need; for example to inform you of an update. The information will not be distributed to any outside parties whatsoever.
- **Date and Time/Time Zone:** Edit as required.
- **Number of Houses to be Scanned:** Scanning tests communication to the houses. If you wish to scan all houses or individual houses, click the relevant house number. Click **Rescan farm houses** to complete the scan.
 - You can name the houses.
- Click **Save Changes**.
- **System Update:** Refer to Software Upgrade.

6.5.4.2 External Devices

Not applicable to irrigation systems.

6.5.4.3 Push Notifications

NOTE This tab and screen appear when connected remotely or locally.

CommBox Plus can send push notifications to multiple email addresses. These emails list:

- House/controller number
- Alarm time and date
- Alarm description

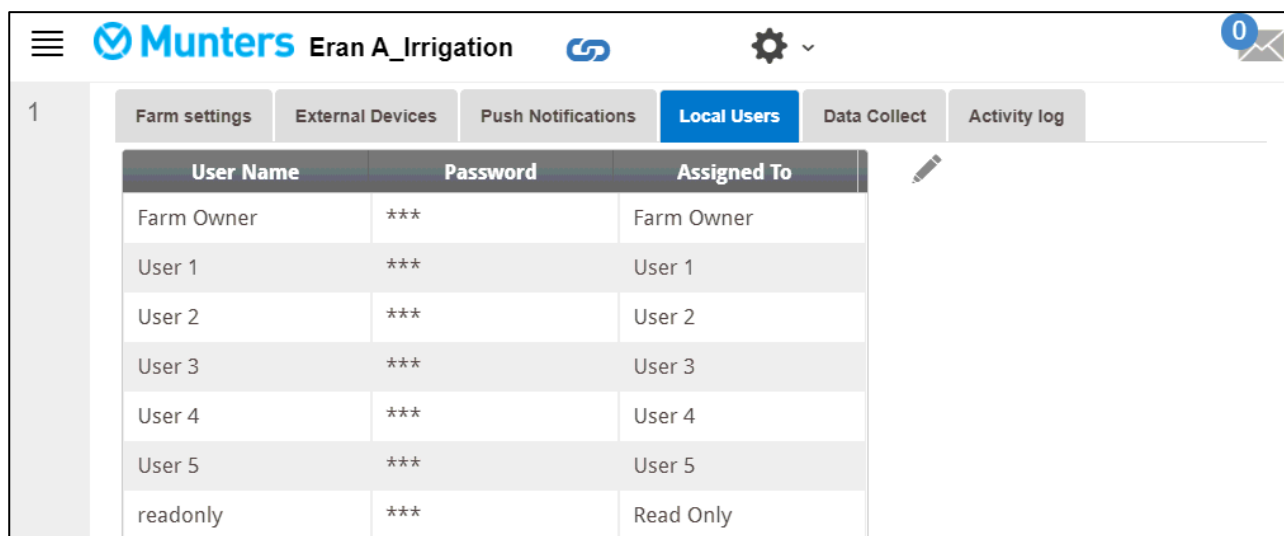
The screenshot shows the Munters Eran A_Irrigation interface. At the top, there's a header with the Munters logo, the system name 'Eran A_Irrigation', a settings gear icon, and a notification badge showing '0'. Below the header is a horizontal tab bar with six tabs: 'Farm settings', 'External Devices', 'Push Notifications' (which is highlighted in blue), 'Local Users', 'Data Collect', and 'Activity log'. The 'Push Notifications' section contains a toggle switch for 'Enable Push Notifications' which is currently turned 'On'. Below the toggle, there's a table with two columns: 'Email' and 'Name'. The first row of the table has the email address 'eran.alon@munters.com' and the name 'OK'. To the right of the table, there are three buttons: '+ Add' (grey), '✓ Save' (blue), and '✓ Check' (grey). At the bottom right of the table, there is a red trash icon.

Figure 58: Push Notifications Screen

- Enter an address, click **Check**, **Add**, and then **Save**.

6.5.4.4 Local Users

NOTE This tab and screen only appear when connected directly to the CommBox Plus (meaning not via the web).



User Name	Password	Assigned To
Farm Owner	***	Farm Owner
User 1	***	User 1
User 2	***	User 2
User 3	***	User 3
User 4	***	User 4
User 5	***	User 5
readonly	***	Read Only

Figure 59: Password Definitions Screen

This screen lists pre-assigned user names and passwords.

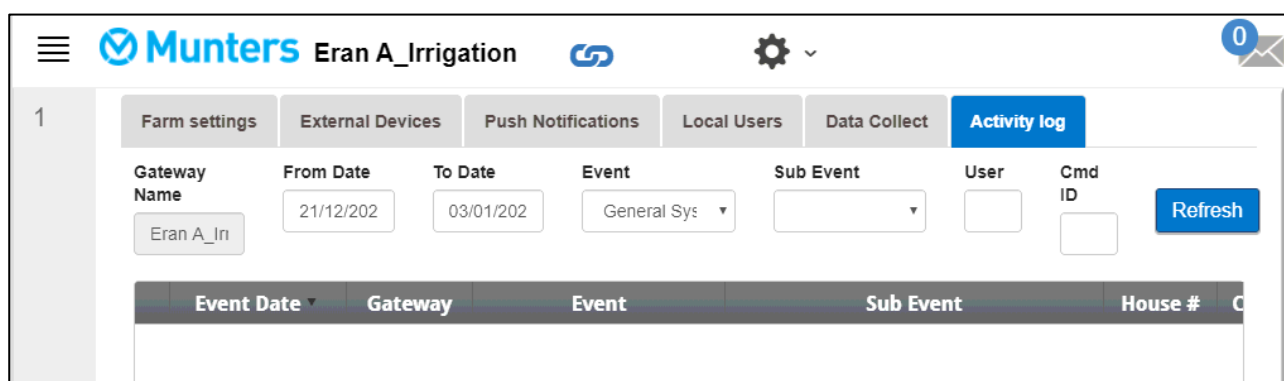
- Each user name and password is the same. For example, User 1's password is User 1. User 2's password is User 2.
- The Farm Owner can edit these names, passwords, and to whom they are assigned.

6.5.4.5 Data Collect

Refer to Appendix B: Data Collection, page 53.

6.5.4.6 Activity Log

This screen displays the history of events connected to the CommBox Plus. Under Event, Sub Event, User, and Cmd ID you can select filters to narrow down the results.



Event Date	Gateway	Event	Sub Event	House #	Cmd ID
------------	---------	-------	-----------	---------	--------

Figure 60: CommBox Plus Events

Refer to Appendix A: Generating an Activity Log, page 51 for detailed information on this function.

6.5.4.7 General Settings

N/A

6.5.5 HOUSE SCAN TAB

The House Scan screen:

- Shows the results of the house scan.
- Show the controller type and software version used in each house.

	House	1	2
1	Ping	Passed	Passed
2	Analyze	Passed	Passed
	Load Controller Configuration	Passed	Passed
	Load Controller Data	Passed	Passed
	Controller Type	Irrigation GreenField	Irrigation GreenField
	Controller Version	3.9.5	3.9.5
	Check to rescan	<input type="checkbox"/>	<input type="checkbox"/>

Figure 61: Scan Example

6.6 Software Upgrade

- Upgrade Procedure
- User Information

6.6.1 UPGRADE PROCEDURE

You can upgrade certain software programs from the Web application.

- GreenField App software
- Web application
- CommBox Plus software

NOTE CommBox Plus can be updated locally only; it cannot be updated remotely. The System Update button does not appear in remote connections.

NOTE You cannot upgrade product software! Upgrade your product software using the procedures given in the product manuals.

NOTE If you are using a disk on key start here. If you are updating your CommBox Plus via the web, go to step 4.

1. Request the software upgrade from your dealer. You will be sent (via email, web transfer, etc.) a UPD file.
 - a. Place the file on a disk on key/flash drive.
 - b. Place the disk on key/flash drive into the CommBox Plus USB port.
2. In the web application, click the **Farm Settings** tab. The following screen appears.

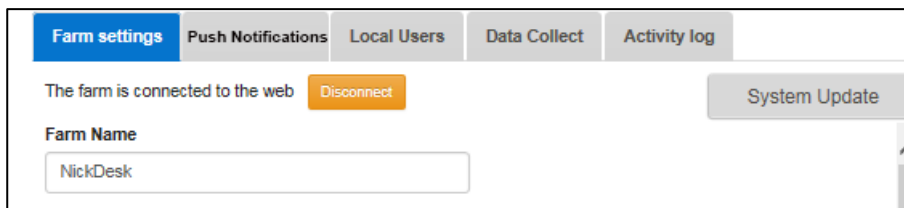


Figure 62: Farm Settings System Update

3. Click System Update. The following screen appears:

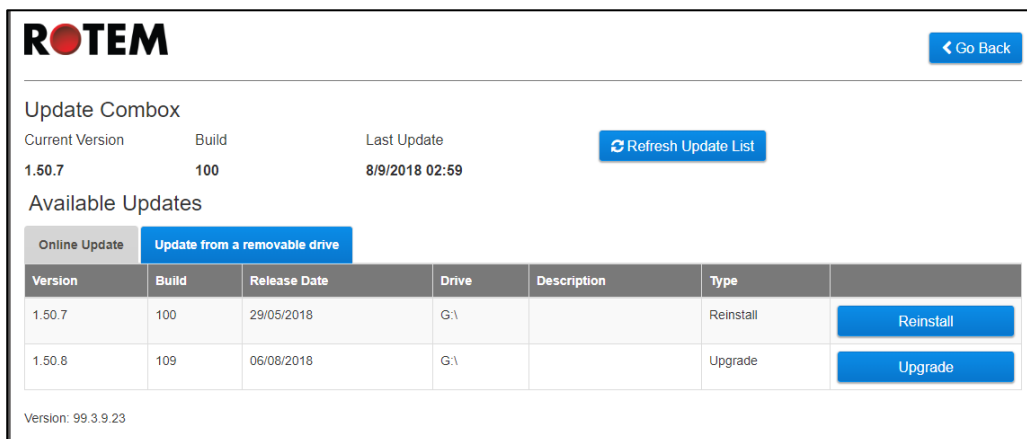


Figure 63: Update Software

- Users updating online: Click Online Update and choose the required software version.
- User updating using a flash drive: Click Update from a removable drive and choose the required software version.

NOTE If you did not place the disk on key in the USB port or if the disk does not contain a program, an error message appears.

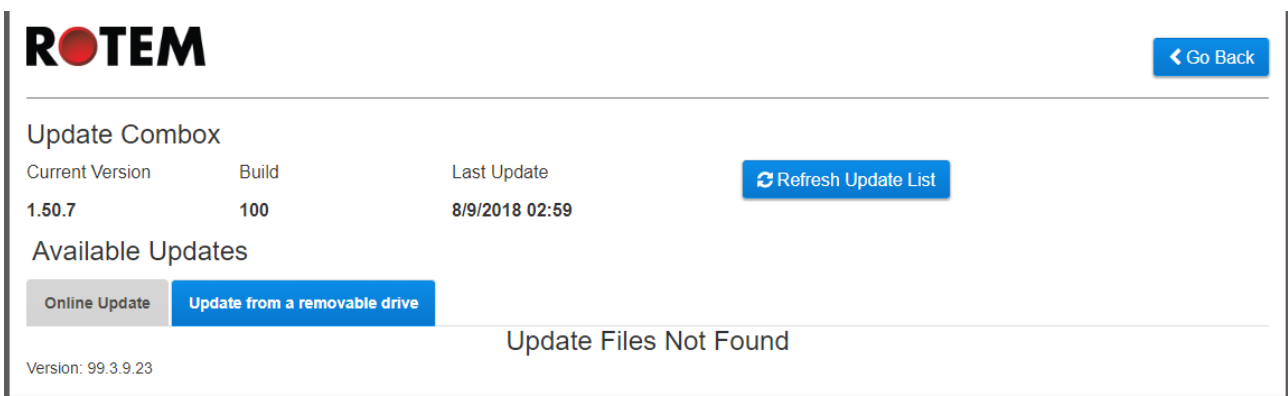


Figure 64: Error Message

6.6.2 USER INFORMATION

When updating to Version 4.7.4.19, the user is requested (three times) to fill out the following form. This information enables Munters to provide an improved user experience. Please note that this information will not be shared with any outside boy.

The screenshot shows the Munters user interface. At the top, there's a header with the Munters logo, the text 'TestCN_Cbox', and a 'Customize' link next to a user profile icon labeled 'Nick'. Below the header, a large white modal window is centered. It has the Munters logo at the top left, followed by the text 'Thank you for updating to RNW v. 4.7.4.19'. Below this, it says 'Please fill in the form below'. There are two buttons highlighted with red boxes: 'Skip for now' (a blue button with white text) and 'Submit' (a blue button with white text). The form itself contains several fields: 'Farm name' (text input with 'TestCN_Cbox'), 'Street' (text input with '34 Main Street'), 'City and State/Province' (text input with 'Delaware'), 'Country' (dropdown menu with 'USA'), 'Zip Code' (text input with '55555-5555'), 'Integrator name' (dropdown menu with 'FOSTER FARMS'), and 'Segment' (three buttons: 'Poultry', 'Swine', and 'Others').

Figure 65: User Information Screen

6.7 About Tab

This screen displays the product and software version. Send this information to technical support in the even that you require assistance. The Support ID enables remote technical support from Munters or from your dealer.

The screenshot shows a modal window titled 'About'. It contains the following text: 'Rotem Farm Admin Version 4.7.2.25', 'Comm-Box Version 4.7.2.25', 'Support ID 821859189', and 'Serial ID GFLD71010340'. At the bottom right, there is a blue button with the text 'OK'.

Figure 66: Tech Support Screen



7 Diagnostics

CommBox Plus includes a basic diagnostics package.

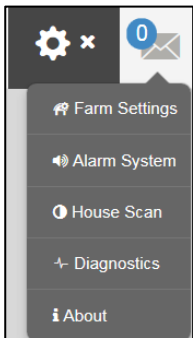



Figure 67: Diagnostics Selection

- On the Activation screen click Diagnostics. The following screen appears.



Diagnostics

Go Back

Device Details

Serial Number

TSBG07009328

Version

1.50.8.46035

Diagnostic Tests

Test Name	Test Instruction		Pass	Fail
Comm Port Connection	<ul style="list-style-type: none"> Connect Serial RS232 Cable From Controller To Comm Port 1 At The Comm-Box. Go To Communication Menu (Under Install Menu On PP Controller System in Touch Controller). Set The House Number to 1 and Baud Rate To 9600. Press the Run Test Button. Repeat Steps 1 to 4 for Comm Port 2 	Com 1 Connection 9600 House Number 1 <input type="checkbox"/> Repeatable Run Test		
		Com 2 Connection 9600 House Number 1 <input type="checkbox"/> Repeatable Run Test		
Internet Connection	" <ul style="list-style-type: none"> On the Comm-Box, connect the LAN cable to LAN Port 1. Click Run Test. Repeat for LAN Port 2. "	Run Test		
Connection To Rotem WEB System	" <ul style="list-style-type: none"> On the Comm-Box, connect the LAN cable to one of the LAN ports. Click Run Test. "	Run Test		
Latest Image Version Installed	" <ul style="list-style-type: none"> This test verifies that the last released image is installed in this Comm-Box This test is performed automatically "	Run Test		
TeamViewerID for the Remote Support	" <ul style="list-style-type: none"> On the Comm-Box, connect the LAN cable to one of the LAN ports. Click Run Test." "	Run Test		
Total Results:				

Speed Test

Figure 68: Diagnostic Tests

CAUTION When switching from Diagnostics mode to Normal mode, there could be a System Issue with closing communication port. If there is a service interruption, reboot the CommBox Plus.

- Use this screen and the information it supplies when speaking with technical support.
- Diagnostic Tests enables the following tests:
 - Lan test
 - Internet tests
 - Support tests

- COM Port test. This option can be used to test the communication between the CommBox Plus and any house. Enter the number of the house to be tested. This test has two options:
 - Standard. This test shows the ping time between the CommBox Plus and the selected controller. Either a number appears or there is a failure.

Test Name	Test Instruction			Pass	Fail
Comm Port Connection	<ul style="list-style-type: none"> • Connect Serial RS232 Cable From Controller To Comm Port 1 At The Comm-Box. • Go To Communication Menu (Under Install Menu On PP Controller System in Touch Controller). • Set The House Number to 1 and Baud Rate To 9600. • Press the Run Test Button. • Repeat Steps 1 to 4 for Comm Port 2 	Com4 Connection 9600 House Number 1 <input type="checkbox"/> Repeatable	Run Test	✓ 1.2609012	

Figure 69: Standard Tests

- Repeatable. This test enables verifying that the controller's communication card (RS232 or RS485) is sending and receiving signals. Click the Run Test icon and examine the controller communication card to ensure that its test LEDs are flashing.

Test Name	Test Instruction			Pass	Fail
Comm Port Connection	<ul style="list-style-type: none"> • Connect Serial RS232 Cable From Controller To Comm Port 1 At The Comm-Box. • Go To Communication Menu (Under Install Menu On PP Controller System in Touch Controller). • Set The House Number to 1 and Baud Rate To 9600. • Press the Run Test Button. • Repeat Steps 1 to 4 for Comm Port 2 	Com4 Connection 9600 House Number 1 <input checked="" type="checkbox"/> Repeatable	Run Test	✓ 27.481028	

Figure 70: Repeatable Tests

- Enables a speed test.

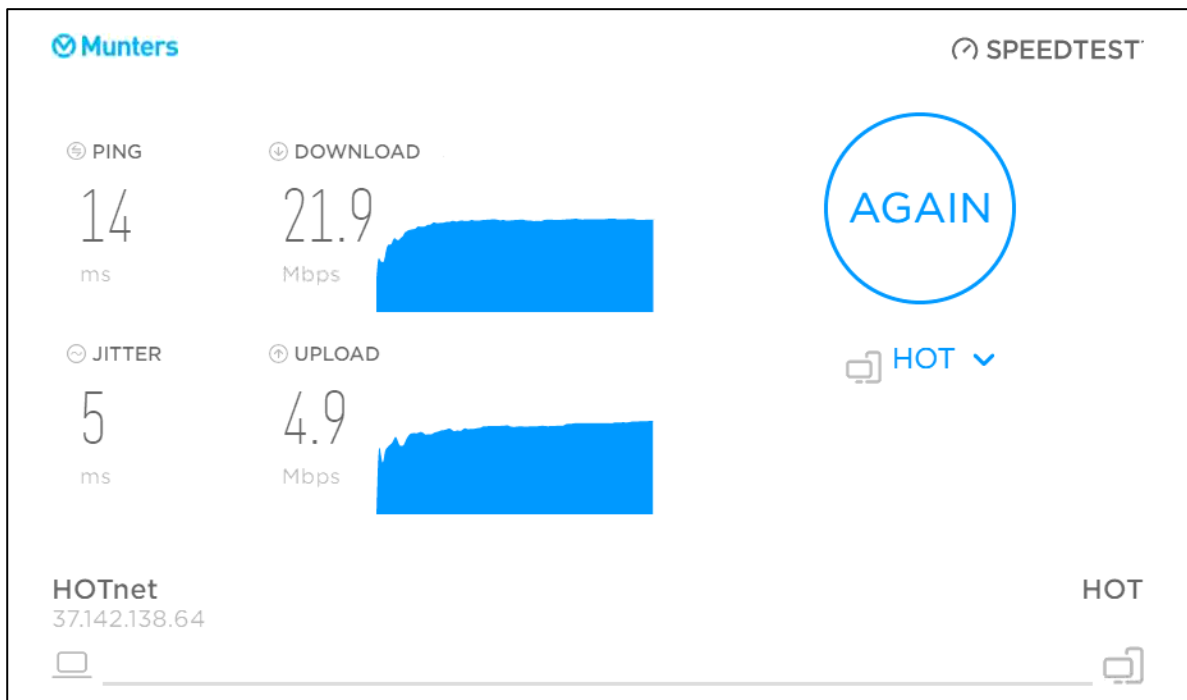


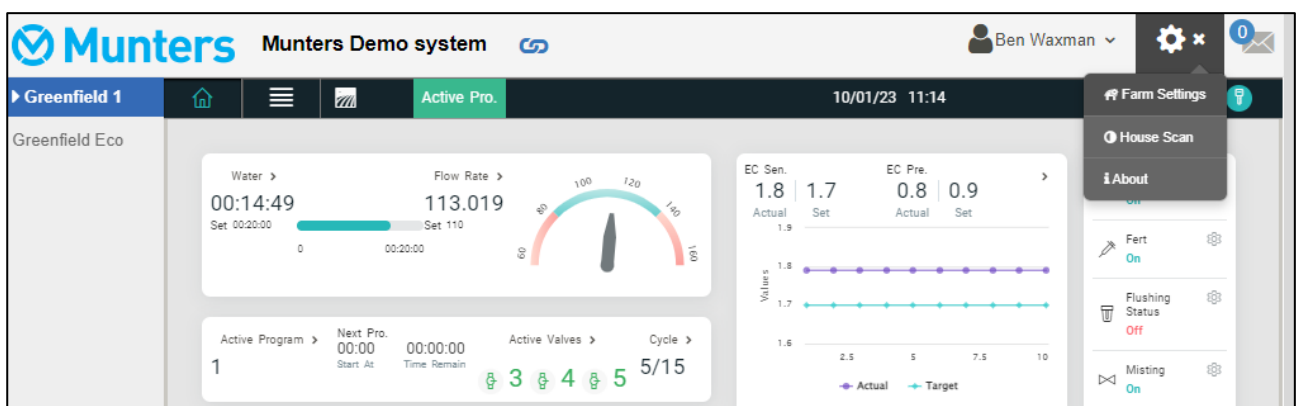
Figure 71: Speed Test

8 Appendix A: Generating an Activity Log

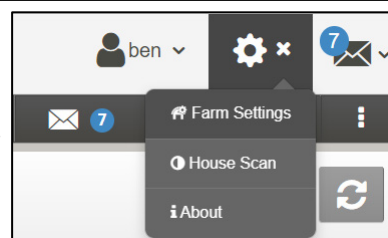
The following section details how to use the Activity Log, in particular how to determine who made changes to the controllers' settings. Please note:

- These inquiries can only be made via the web. Local connections or connecting via TeamViewer do not support this function.
- Only changes made via the web are listed! Changes made locally by the farm owner or administrator are not listed.
- Only administrators can perform this function.

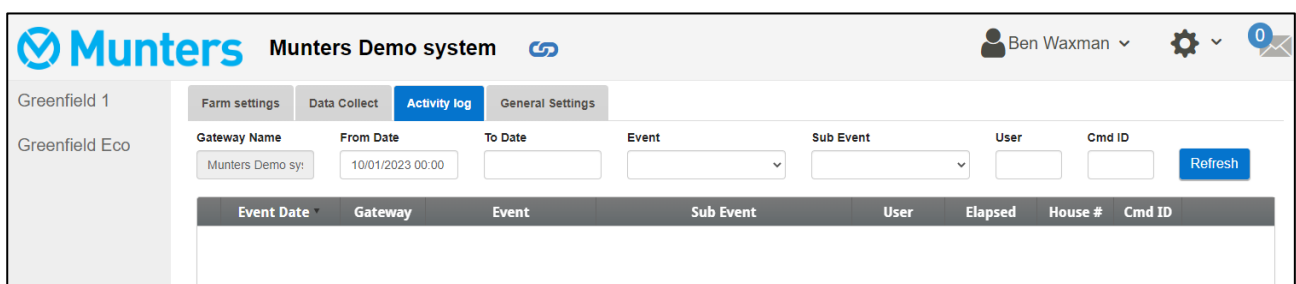
1. Connect to a farm via www.rotamnetweb.com.



2. Under the settings icon, click Farm Settings.



3. Click the Activity Log tab.



4. Define as needed:

- Gateway Name: (farm name that the user chose): Read only.
- From/To: Define the time frame.
- Event:

- To see all events, leave this field empty.
- To see who made changes to the controller settings, choose **Save Farm Data** from the dropdown list.
- Sub Event: Select if required.
- User: If you are looking for a specific person's activities, type in the user name.
- Cmd ID: If you are looking for a specific change in controller settings, type in the command ID.

Farm settings	Data Collect	Activity log	General Settings				
Gateway Name	From Date	To Date	Event	Sub Event	User	Cmd ID	
Munters Demo sy:	10/01/2023 00:00		Save Farm Data ▼				Refresh

Event Date ▼	Gateway	Event	Sub Event	User	Elapsed	House #	Cmd ID	
10/01/23 11:33:03	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	2.353 sec	1	15	show info
10/01/23 11:32:11	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	813 ms	1	9	show info
10/01/23 11:31:57	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	2.776 sec	1	101	show info

NOTE For information on the Command IDs, consult with technical support.

9 Appendix B: Data Collection

9.1 Centralized Collection

NOTE Only use the Centralized Collection function after consulting with Munters technical support.

- Only the group owner can define the General Settings. The following tab does appear on any other user's screen.
- This function only appears in web connections.
- The General Settings page is an option. If data upload is to a local server only, leave these fields blank and go to Defining the FTP/SFTP server.

1. In the settings icon, select Farm Settings.

The screenshot shows the Munters Irrigation-Sami web interface. The top navigation bar includes the Munters logo, the title 'Irrigation-Sami', a user profile 'Ben Gmail', and a settings icon. Below the navigation bar, there are tabs: 'Comparison', 'Farm settings' (selected), 'Push Notifications', 'Data Collect', 'Activity log', and 'General Settings'. The 'Farm settings' tab contains fields for 'Farm Name' (Irrigation-Sami), 'Farm Type' (Irrigation), and an empty field. To the right, there is a section for 'Attached Web Groups' with a server URL 'https://rotemnetweb.com' and a table of groups:

Group Name	Owner
CommBox	Nick
Irrigation	Nick

A settings menu is open on the right, showing options: 'Farm Settings', 'House Scan', and 'About'.

2. Go to Farm Settings > General Settings.

The screenshot shows the 'General Settings' page in the Munters Irrigation-Sami web interface. The 'General Settings' tab is selected in the top navigation bar. The page title is 'General Settings'. It contains the following fields:

- Farm Code**: A text input field.
- Integrator Name**: A drop-down menu with 'None' selected.
- Dealer**: A drop-down menu with 'None' selected.
- Data Provider**: A drop-down menu with 'None' selected.

At the bottom, there is a checkbox for 'Accept Data Provider License' with a link to 'License Agreement'. A 'Save' button is located in the bottom right corner.

3. Enter the data as follows:

- Farm Code: This is a code provided by the integrator used to identify the farm.
- Integrator Name: From the drop-down list, select the required name.
- Dealer: From the drop-down list, select the required dealer name.
- Data Provider: From the drop-down list, select the required data provider.

- Accept Data Provider License. Mark this box. This box must be checked to enable centralized data collection.

NOTE This acceptance is saved.

Farm settings	Data Collect	Activity log	General Settings
---------------	--------------	--------------	------------------

General Settings

Farm Code

34234234QD

Integrator Name

Other

Dealer

Other

Data Provider

Other

☒ Accept Data Provider License [License Agreement](#)

Accepted on 29/12/2022 14:38 By John Smith

4. Click the Data Collect Screen. Refer to the following section.

9.2 Defining the FTP/SFTP server

Use this function to enable data collection to your FTP/SFTP site.

NOTE *Data Upload Allowed* appears if the General Settings fields are filled out and Data Provider License accepted. If the fields are filled out but the license is **NOT** accepted data, upload is disabled.

Farm settings	External Devices	Push Notifications	Local Users	Data Collect	Activity log
<div><div>Data Upload Settings</div><div>Log</div></div> <div><div>▼ Data Upload Settings</div><div>Data Upload Allowed</div><div><div>Farm name for collect</div><div>Farm</div></div><div><div>License key</div><div>a65212f8-56a4-4bab-85d6-48b22e54cf2</div></div><div><div>Expired date</div><div>30/05//2023</div></div><div><div>Allow to change settings</div><div><input type="checkbox"/></div></div><div><div>FTP</div><div>SFTP</div><div><input type="checkbox"/></div><div></div></div></div>					

FTP Remote Server Details

Host Address

Port Number

0

Target Folder

User Name

Password

▼ Collect Preferences

Auto Collect

☐ Alarm History

☐ VFT

☐ Collect Alarms every 1 minute

Select Output File Formats:

☐ xml

☐ MTech

Define The Data Collection Interval

15

▼

min.

Select Houses

☒ House Number

☒ House 1

Save

- Data Upload Settings:
 - Check **Allow to change settings** to enable editing the page.
 - Select **FTP** or **SFTP** and check the box.
 - License key: This is a read-only field. The field is filled in automatically if you fill in the General Settings fields.
- FTP/SFTP Details: Fill in the fields as required.
- Collect Preferences:
 - Under **Select Houses**, select at least one house to enable changing Auto Collect settings.
 - Check Alarm History, VFT, and Collect Alarms every 1 minute as required.

CAUTION *Only mark the Alarm History, VFT, and Collect Alarms checkboxes if you are uploading data to a centralized collector. Anyone using a private FTP server must leave these boxes unchecked!*

- Select the output file format.
- Define the collection interval.

10 Warranty

Warranty and technical assistance

Munters products are designed and built to provide reliable and satisfactory performance but cannot be guaranteed free of faults; although they are reliable products they can develop unforeseeable defects and the user must take this into account and arrange adequate emergency or alarm systems if failure to operate could cause damage to the articles for which the Munters plant was required: if this is not done, the user is fully responsible for the damage which they could suffer.

Munters extends this limited warranty to the first purchaser and guarantees its products to be free from defects originating in manufacture or materials for one year from the date of delivery, provided that suitable transport, storage, installation and maintenance terms are complied with. The warranty does not apply if the products have been repaired without express authorisation from Munters, or repaired in such a way that, in Munters' judgement, their performance and reliability have been impaired, or incorrectly installed, or subjected to improper use. The user accepts total responsibility for incorrect use of the products.

The warranty on products from outside suppliers fitted to is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

Munters at its sole discretion has the option of replacing or repairing, free of charge, products which it considers defective, and will arrange for their despatch back to the customer carriage paid. In the case of faulty parts of small commercial value which are widely available (such as bolts, etc.) for urgent despatch, where the cost of carriage would exceed the value of the parts, Munters may authorise the customer exclusively to purchase the replacement parts locally; Munters will reimburse the value of the product at its cost price.

Munters will not be liable for costs incurred in demounting the defective part, or the time required to travel to site and the associated travel costs. No agent, employee or dealer is authorised to give any further guarantees or to accept any other liability on Munters' behalf in connection with other Munters products, except in writing with the signature of one of the Company's Managers.

WARNING: In the interests of improving the quality of its products and services, Munters reserves the right at any time and without prior notice to alter the specifications in this manual.

The liability of the manufacturer Munters ceases in the event of:

- dismantling the safety devices;
- use of unauthorised materials;

- inadequate maintenance;
- use of non-original spare parts and accessories.

Barring specific contractual terms, the following are directly at the user's expense:

- preparing installation sites;
- providing an electricity supply (including the protective equipotential bonding (PE) conductor, in accordance with CEI EN 60204-1, paragraph 8.2), for correctly connecting the equipment to the mains electricity supply;
- providing ancillary services appropriate to the requirements of the plant on the basis of the information supplied with regard to installation;
- tools and consumables required for fitting and installation;
- lubricants necessary for commissioning and maintenance.

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer.

Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

The use of non-original spare parts or incorrect assembly exonerates the manufacturer from all liability.

Requests for technical assistance and spare parts can be made directly to the nearest [Munters office](#).

