

CommBox

Installation and User Manual



CommBox

Internet Access

CommBox

Installation and User Manual

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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 purchasing a CommBox!

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 unit, 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.

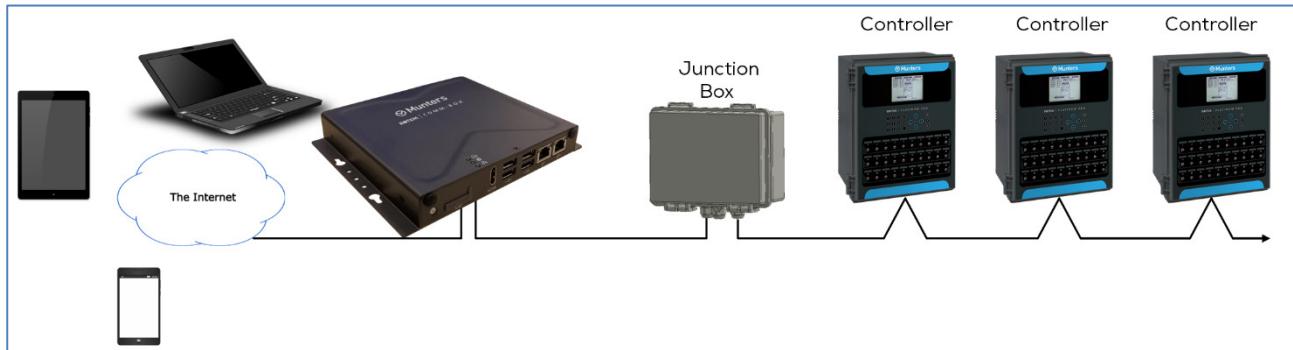
1.3 Notes

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 controllers, including monitoring and control capabilities, 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
- Local communication via wired or wireless communication
- Status reports provide critical information on house functions and animal statistics
- Push notifications

In addition, CommBox can act as an add-on for users wanting to add web-access to legacy Communicator units.

2.1 Ordering

Each CommBox has one of two software packages:

- Poultry (P/N: 904-07-00016 CommBox-POU-EN-ROT)
- Pigs (P/N: 904-07-00017 CommBox-PIG-EN-ROT)

These software packages are not interchangeable and cannot be converted. In addition, connecting a CommBox directly to a controller requires a Junction Box. There are two options:

- RS-232 Network: P/N 904-99-00036 COMMBOX -POU- JUNCTION BOX RS232
- RS-485 Network: P/N 904-99-00037 COMMBOX -POU- JUNCTION BOX RS485

2.2 What Comes in the Package

- CommBox
- Junction Box
- Power Supply Cables 115VAC and 230VAC
- EPROM for Communicator upgrade. When connecting CommBox directly to Communicator, upgrade the Communicator software using the EPROM supplied.

3 Hardware Installation

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

- Error! Reference source not found.
- Error! Reference source not found.
- Mounting the CommBox
- Grounding
- Connecting the CommBox to the Internet
- Error! Reference source not found.
- Error! Reference source not found.
- Connecting the CommBox to a Communicator
- Error! Reference source not found.

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

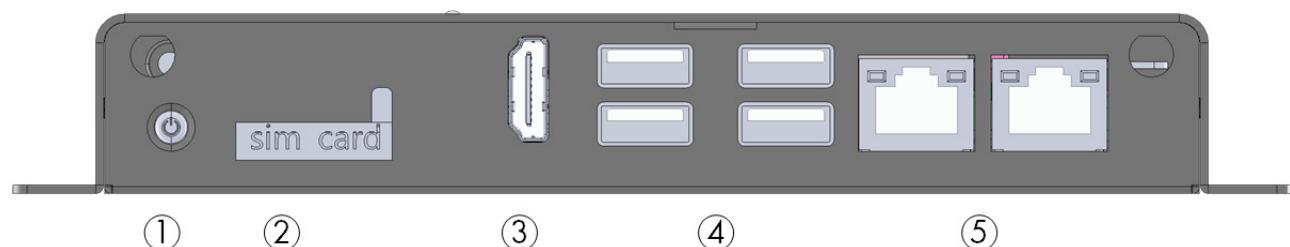


Figure 1: Front View

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 Figure 6)
4	USB ports (refer to Figure 6)

Number	Description
5	Internet ports (refer to Connecting the CommBox to the Internet)

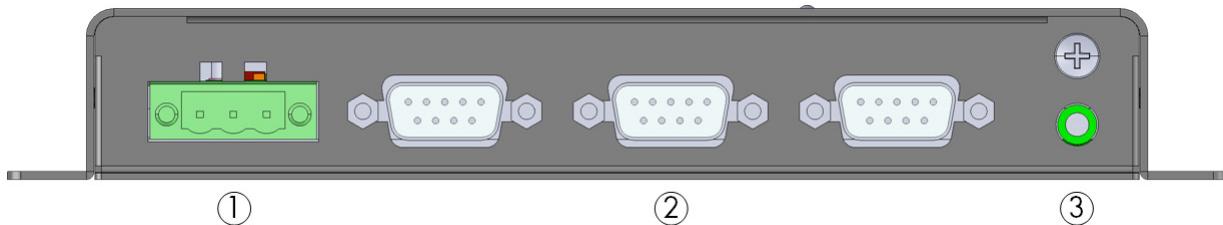


Figure 2: Rear View

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

3.3 Mounting the CommBox

- Using the screws provided, mount the unit.

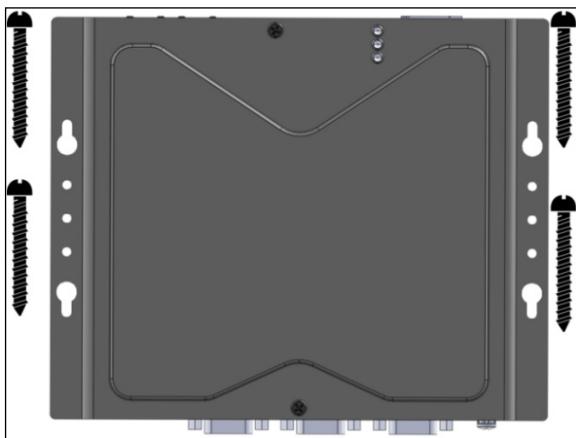


Figure 3: Unit and Mounting Screws

3.4 Grounding

- Connect the ground cable to the dedicated ground terminal.

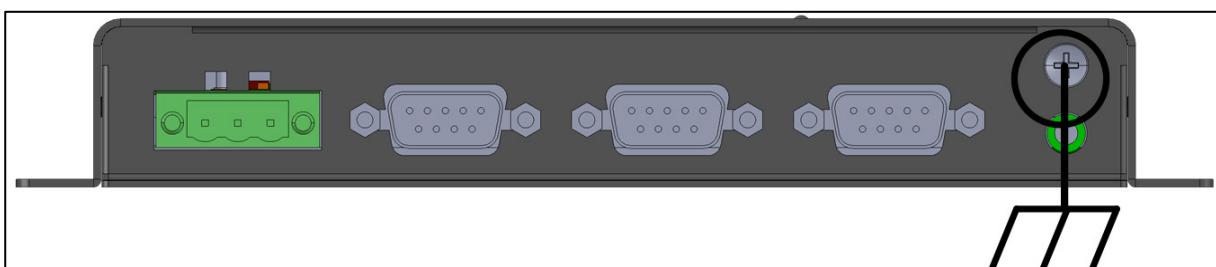


Figure 4: Grounding Schematic

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.

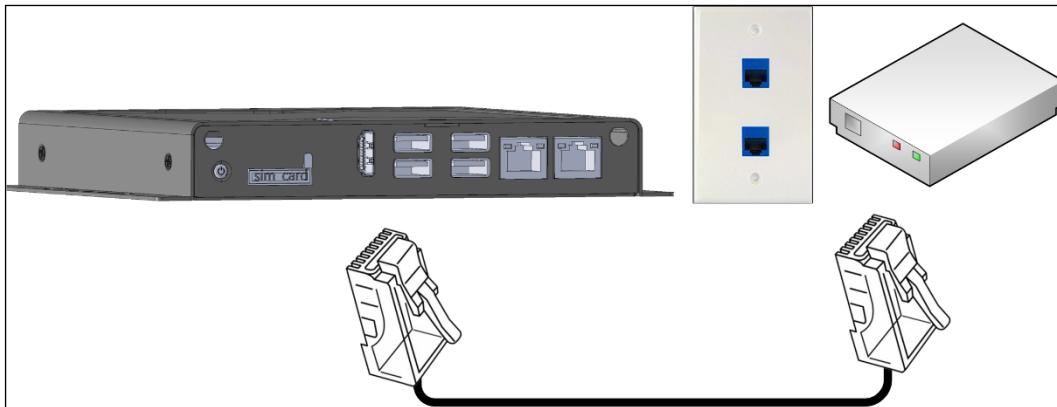


Figure 5: Internet Connection

3.6 SIM Card Connectivity

- CommBox SIM internet connectivity works as a backup to a standard LAN network. However, the SIM card will only function when there is no actual LAN connection (meaning, the LAN service is weak or there is no LAN service in a particular area).
- Munters recommends configuring the SIM card in the dealer office before installing the CommBox in the field. When configuring the SIM card the following information (available from your local cellular service provider) is required:
 - ◆ Cellular provider name = XXXX
 - ◆ APN = XXXX

If required, contact your dealer or Munters' Global Support team for technical assistance. Go to <https://munters.zendesk.com/hc/en-us/categories/360001140792-Communication-Hardware> to submit a ticket to the Global Support team.

- A 5 Mbps upload/download speed (minimum) is required to ensure secure connectivity between the CommBox and controllers.

3.7 Connecting the CommBox to a Peripheral Device

If required, connect a screen 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 and an HDMI adapter.



Figure 6: Peripheral Devices

3.8 Connecting the CommBox to a Communicator

- Connect the CommBox to a Munters Communicator using a standard USB cable (supplied with the Communicator unit).

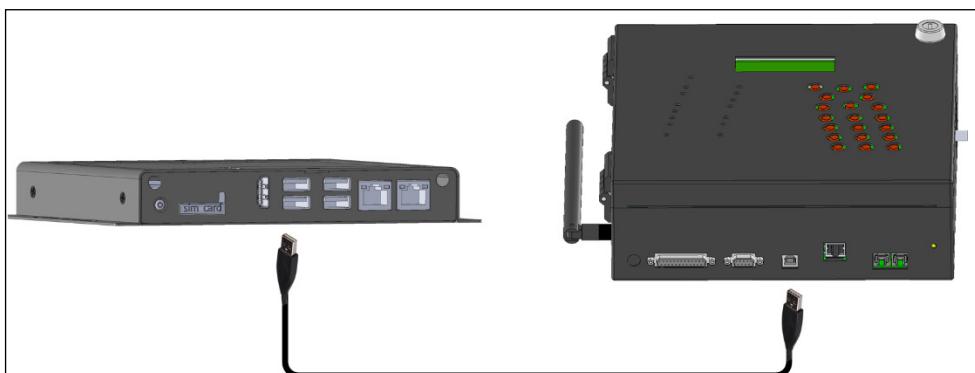


Figure 7: Communicator Connection

NOTE Communicator requires the Communicator Serial Card (P/N: C-COMM-SERIAL) to support the CommBox. Refer to Document #112189 for details on upgrading the Communicator.

3.9 Connecting the CommBox to a Controller or RLink

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

- Controller to Junction Box
- 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!*

NOTE The final controller in any RS-485 chain or branch requires a 120-ohm terminator. Refer to *Termination*, page 19.

3.9.1 CONTROLLER TO JUNCTION BOX WIRING

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

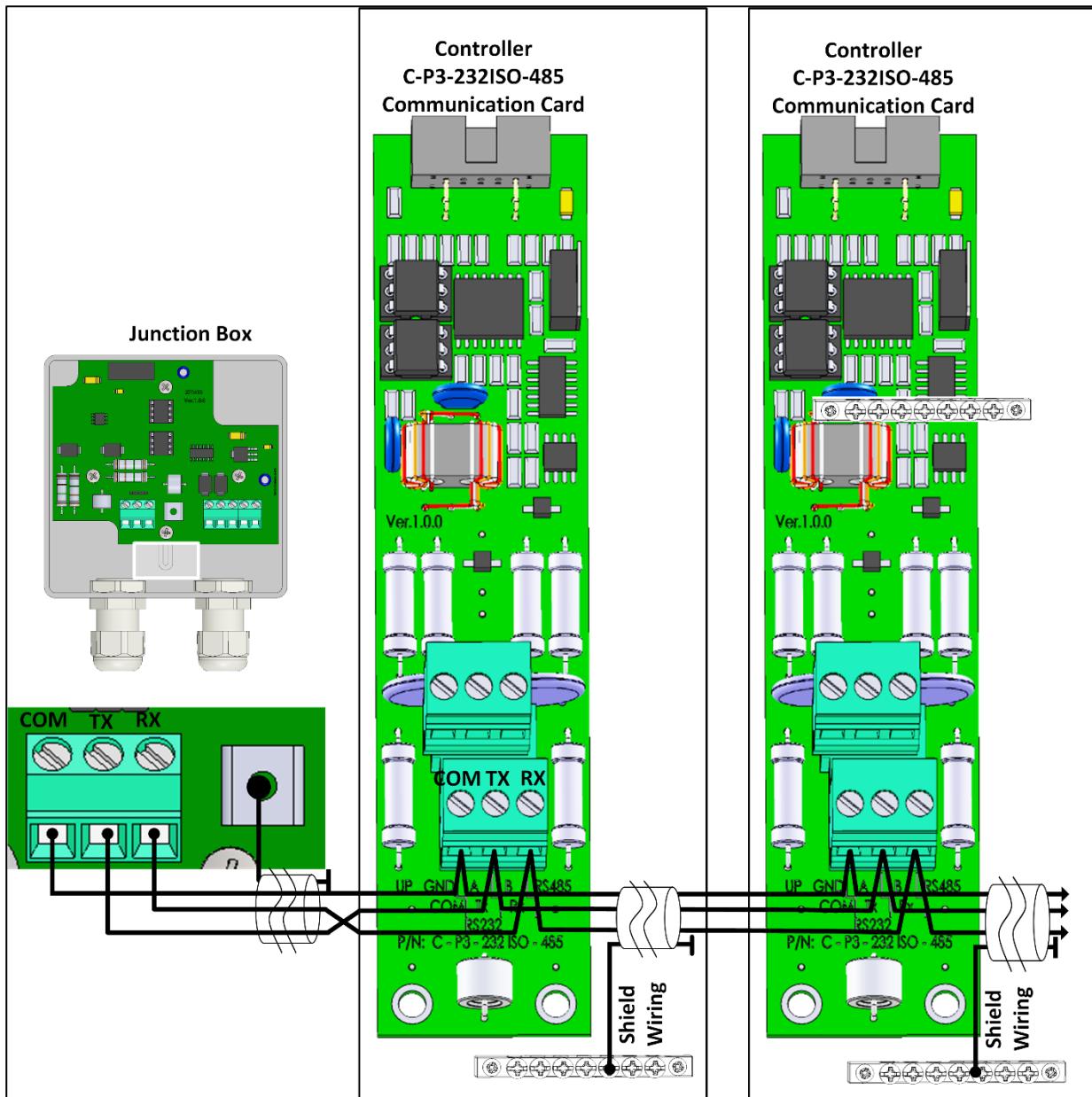


Figure 8: RS-232 Wiring

- Connect the wiring as follows:
 - COM to COM
 - The CommBox TX port is connected to Controller's RX port.
 - The CommBox RX port is connected to Controller's TX port.
- The cable between the CommBox and the controller should be a 3 Wire Shielded Cable (22 AWG minimum).
- Connect the cable shield wire to the controller ground strip.

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 ground loop.

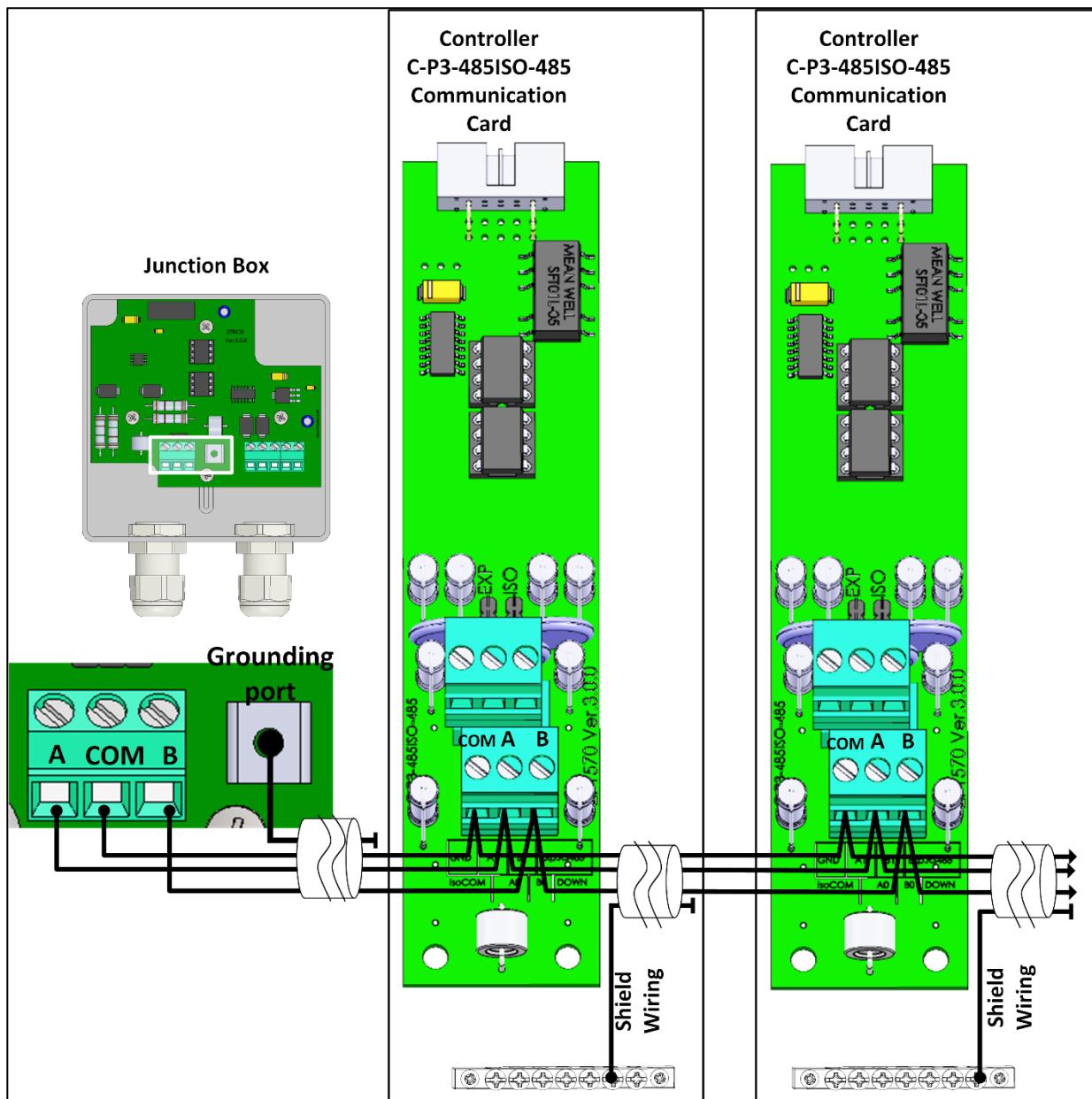


Figure 9: RS-485 Wiring

- The cable between the external connection box and the controllers should be a 3-wire twisted shielded cable (22 or 24 AWG).
- 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.
- The final controller in any chain or branch may require a 120-ohm terminator. Refer to Termination, page 19.
- Connect the cable shield wire to the controller ground strip.

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 ground loop.

3.9.2 RLINK ONE TO JUNCTION BOX WIRING

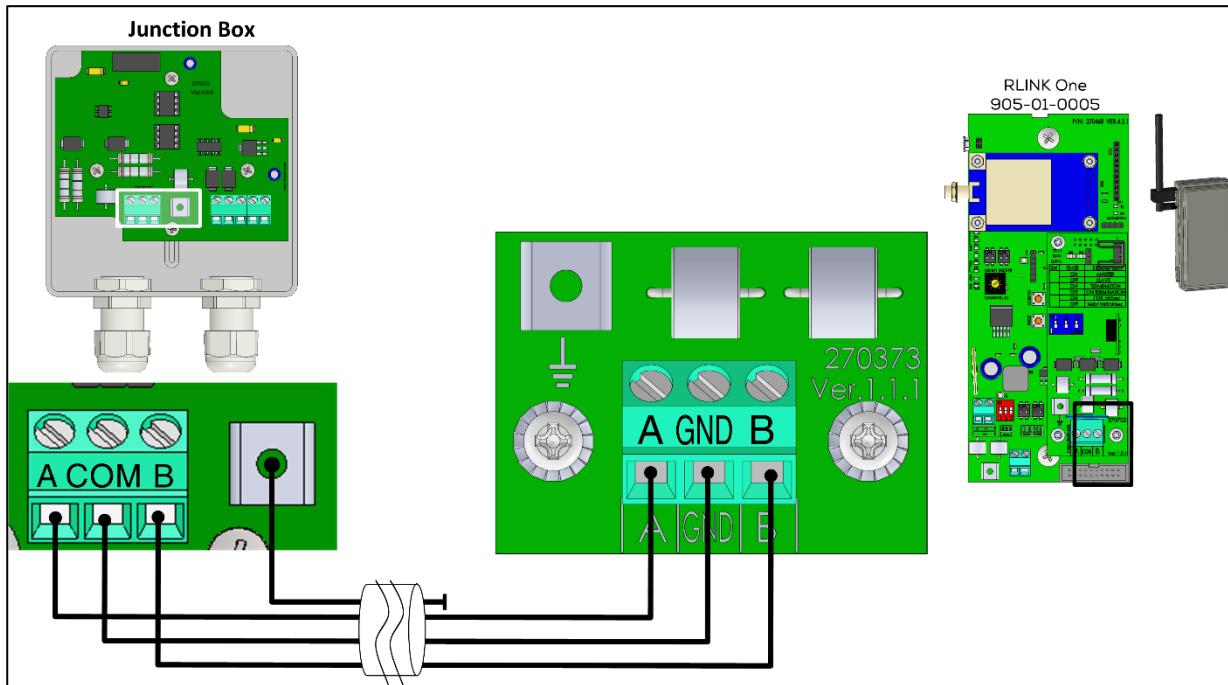


Figure 10: RLink One Wiring

- The cable between the external connection box and the controllers should be a 3-wire twisted shielded cable (22 or 24 AWG).
- 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.
- Connect the cable shield wire to the controller ground strip.

NOTE: RLINK One supports RS-485 infrastructure only.

3.9.3 COMMBOX TO JUNCTION BOX WIRING

The CommBox comes with the power supply wired to the unit. See Figure 11.

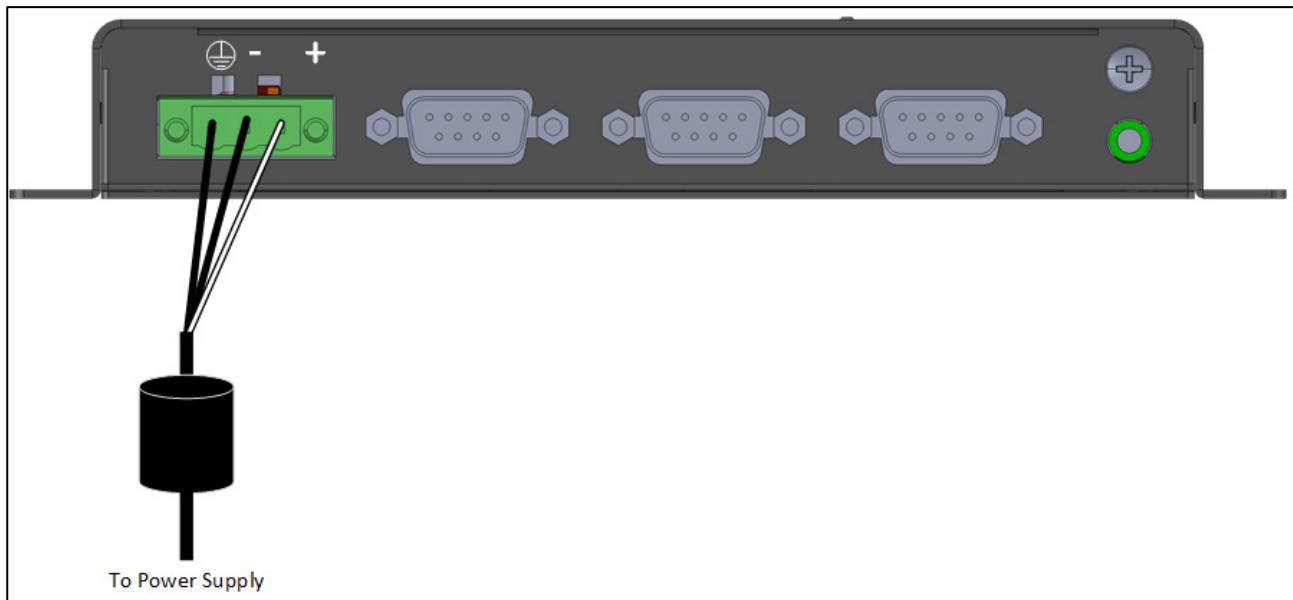


Figure 11: CommBox power supply wiring

1. Insert the Junction Box 9-Pin Connector into COM1 (Figure 12).

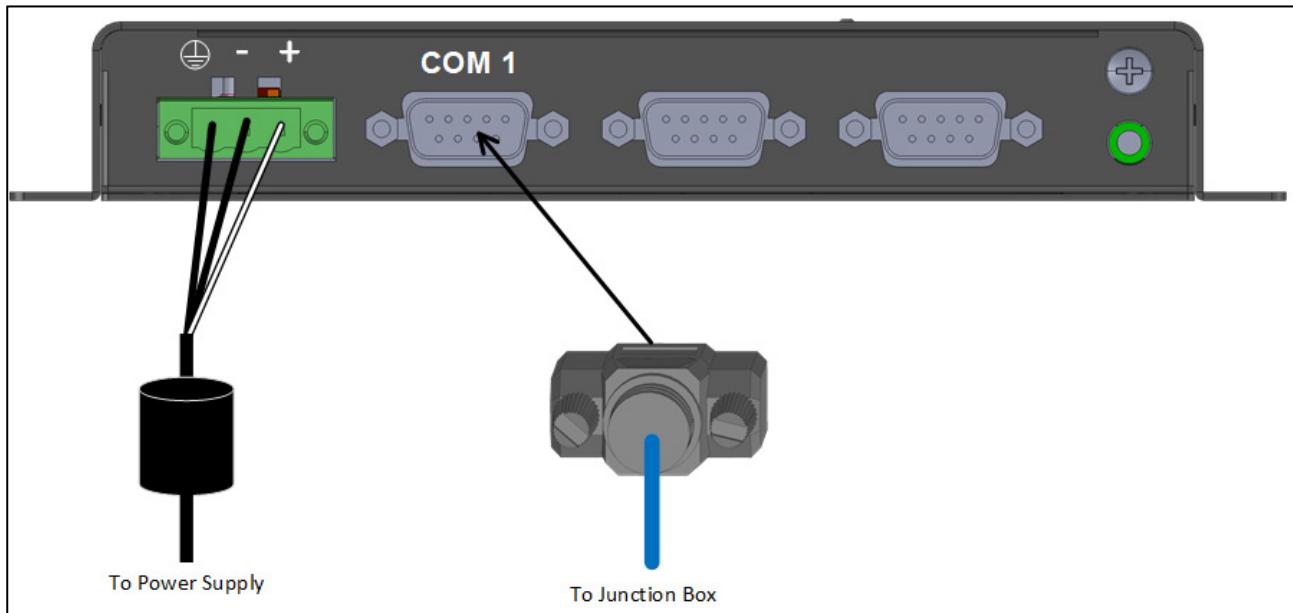


Figure 12: Insert 9 Pin Connector

2. Insert the two wires coming from the Junction Box cable into the ports (Figure 13).

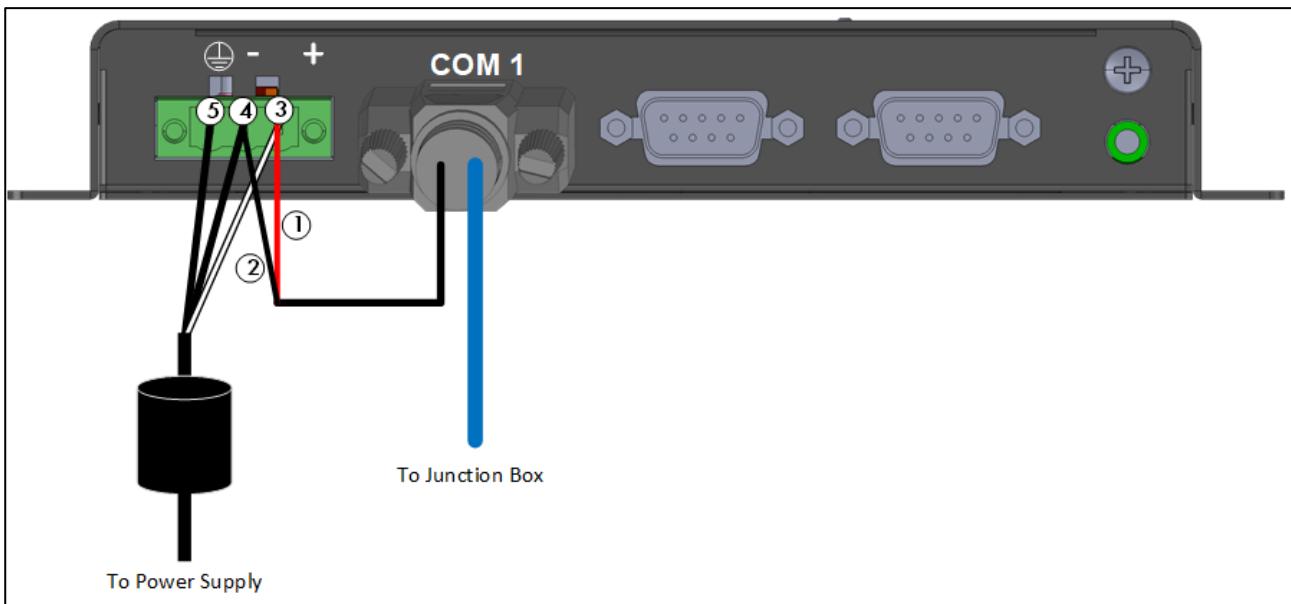


Figure 13: Junction Box Wiring to CommBox

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 13. Place both black cables into the ports as shown in Figure 13; either cable can be placed in either port.

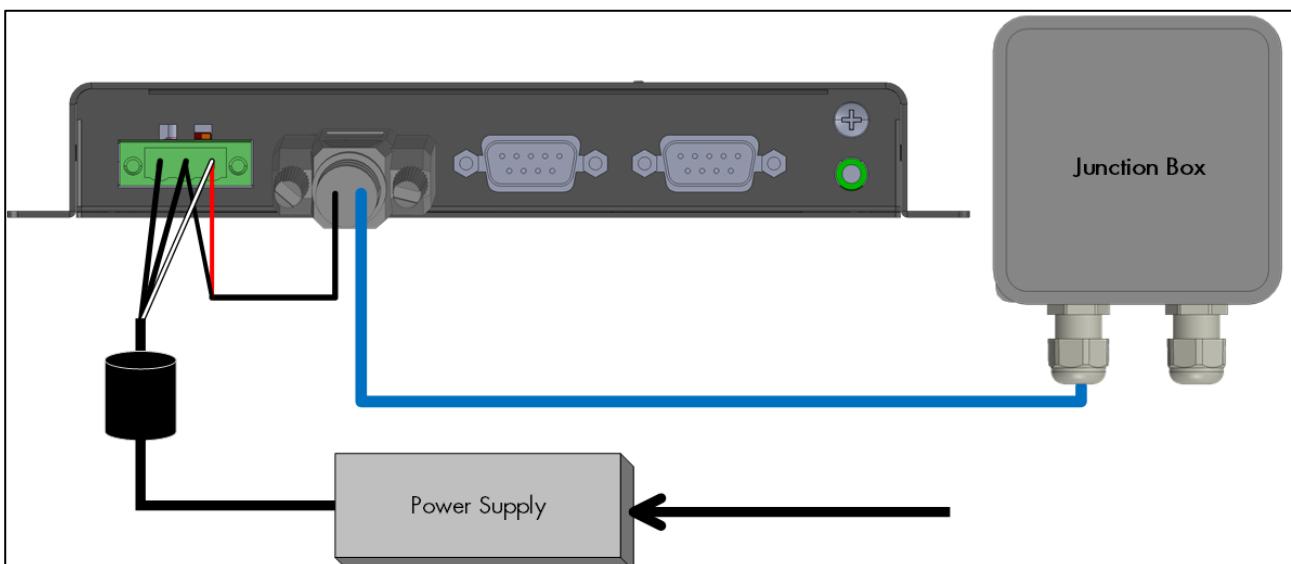


Figure 14: Power Supply – CommBox – Junction Box Setup

3.9.4 WIRING TOPOLOGY

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

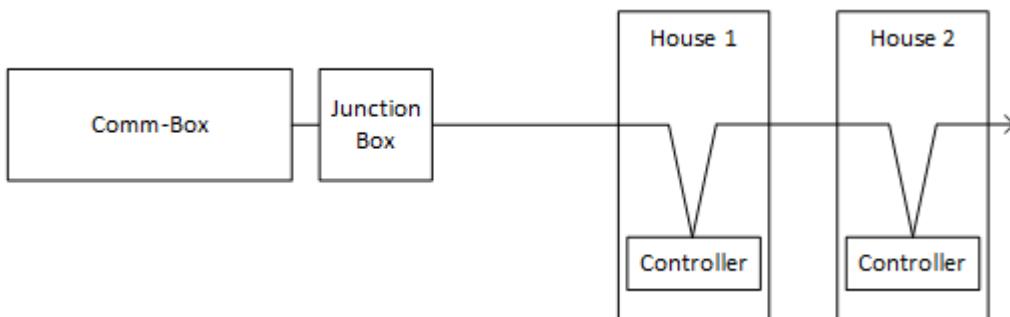


Figure 15: Direct connections

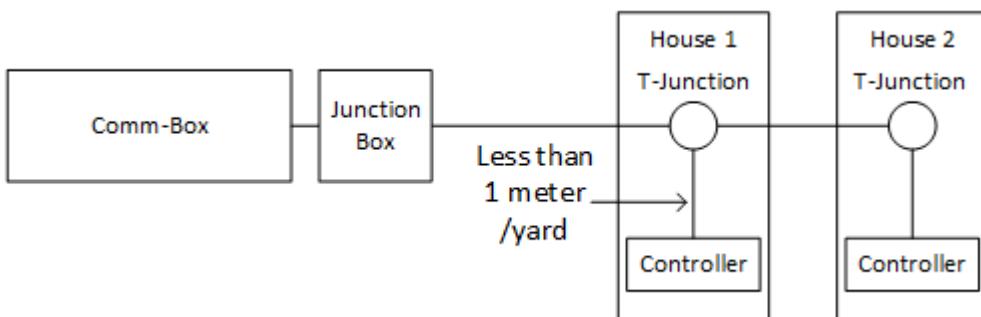


Figure 16: T-Junction (permitted)

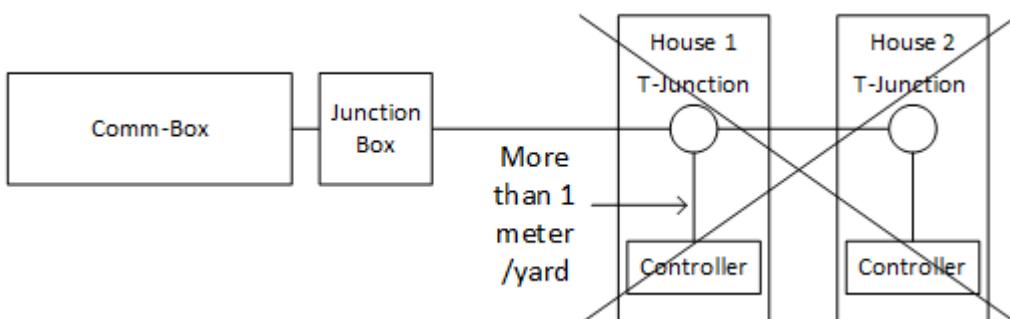


Figure 17: T-Junction (not permitted)

NOTE: When using RS-232, there is no restriction on the distance between the T-Junction and the controller.

3.9.5 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 Junction 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 23, page 21), the resistor is installed in the controller).

Termination may not be required in shorter installations.

- Termination Topologies
- Termination Wiring

3.9.5.1 Termination Topologies

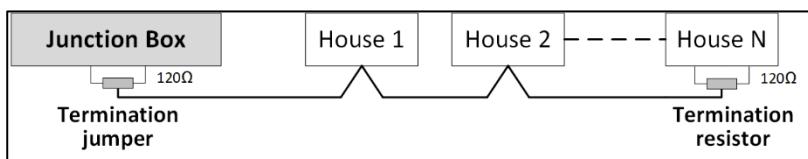


Figure 18: Topology 1: CommBox/House Termination

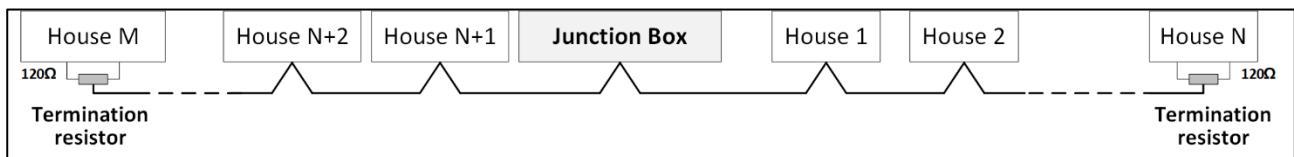


Figure 19: Topology 2: House Termination

The following two topologies require Munters RS-485 Repeaters.

CAUTION *Install the repeater within one meter of the CommBox T-Box.*

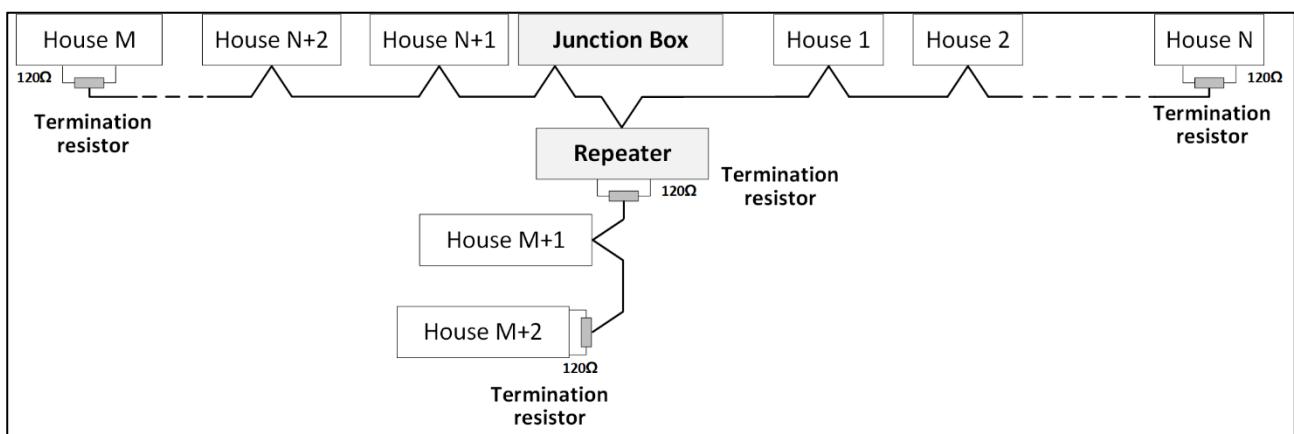


Figure 20: House and Repeater Termination

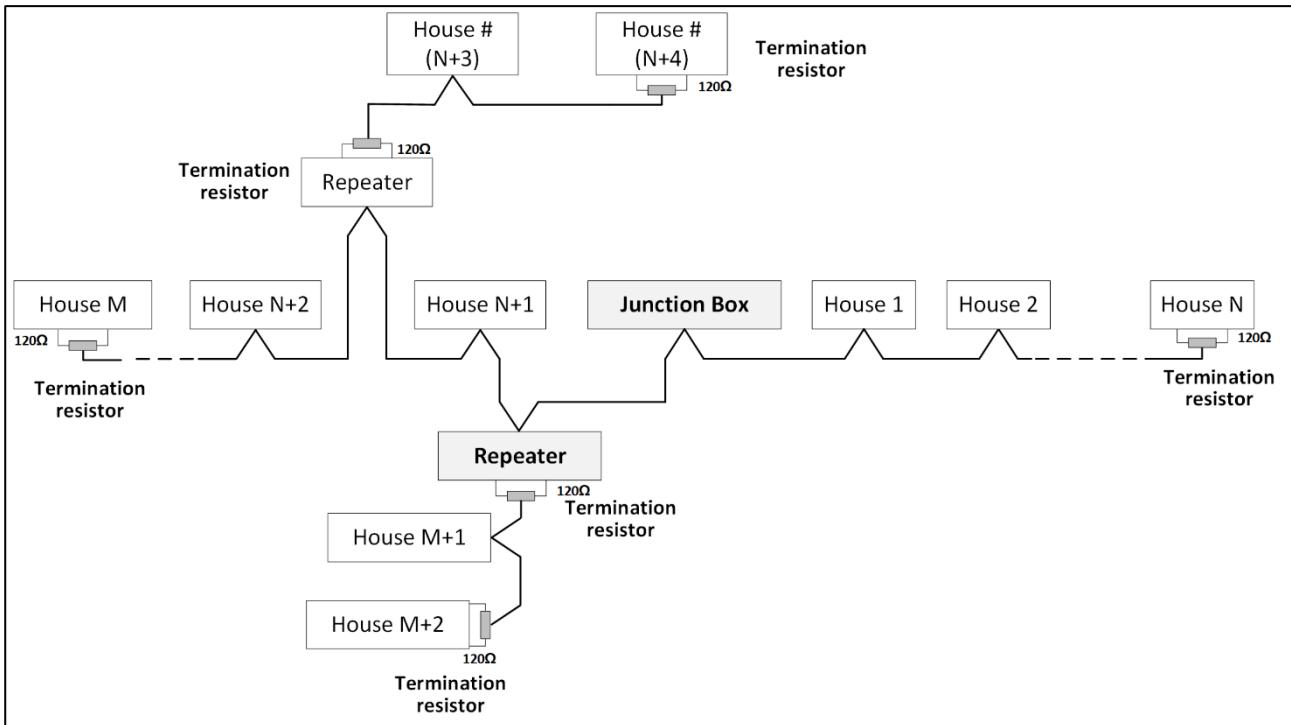


Figure 21: House and Multiple Repeaters Termination

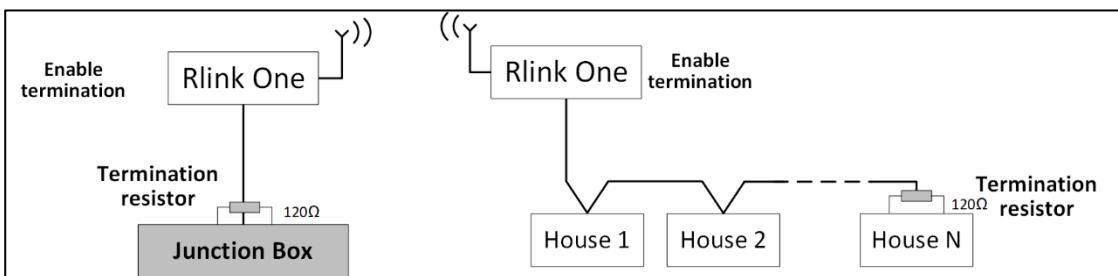


Figure 22: RLink One and House Termination

NOTE When using an RLINK One, refer to the RLINK One Manual for detailed information on RLINK One termination.

3.9.5.2 Termination Wiring

- CommBox: Place the jumper as shown below.

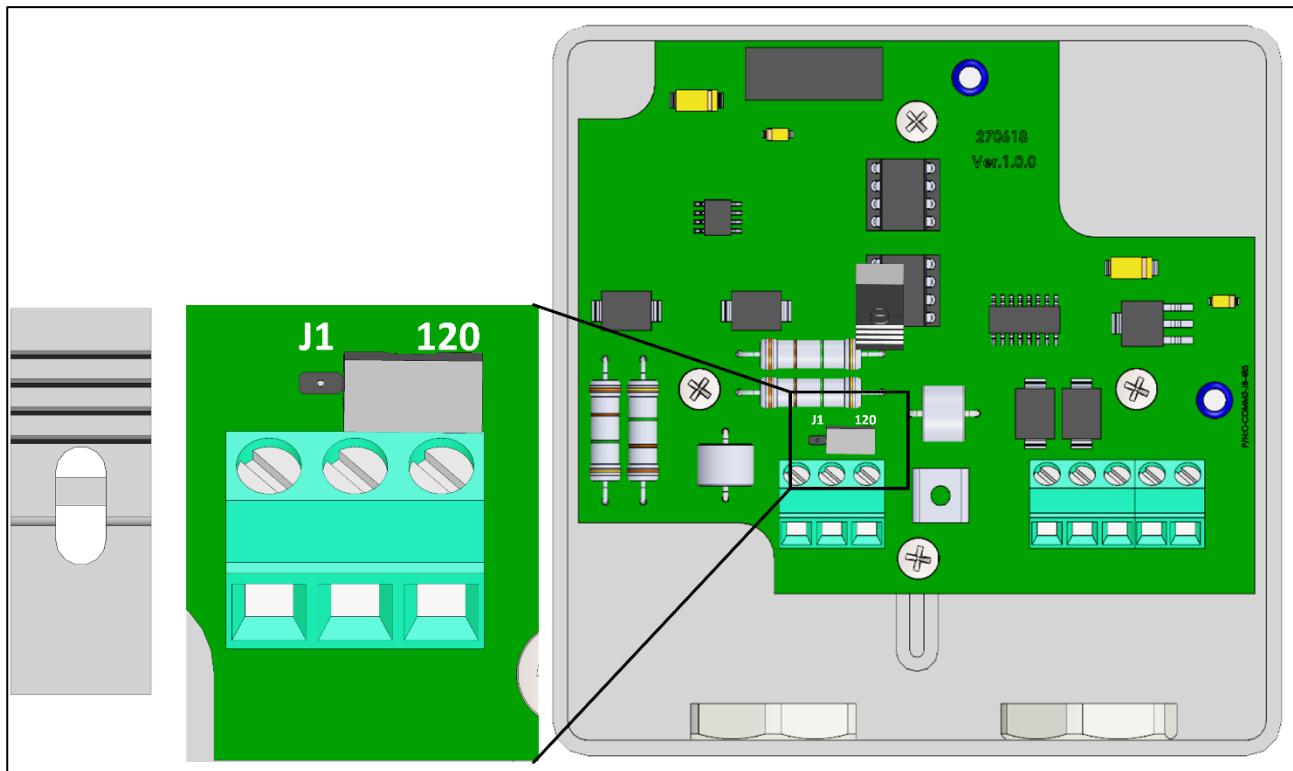


Figure 23: Junction Termination

- Repeaters: Move the S2 dipswitch on the Output card to ON.

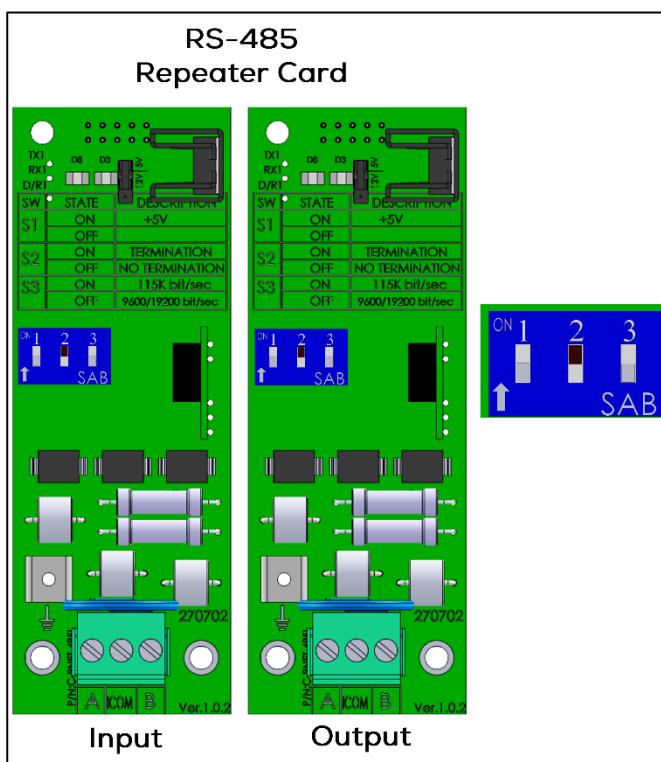


Figure 24: Repeater Termination

4 Specifications

- CommBox
- Junction Box

4.1 CommBox

Power Supply	
Power Input	<ul style="list-style-type: none">• 24V DC +/-20%• 1x 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
Ethernet	
LAN	Two ports
Internet bandwidth	5 Mbps upload/download speed (minimum)
SIM Card Requirements	
Cellphone SIM Card	4G (LTE CAT1)
Cell Package	Depends on user requirements. Please consult with your dealer.
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)
Certification	
 	 (Class A) 

4.2 Junction Box

Power Supply	
Junction Box Power Input	24 VDC, 30 mA
CAUTION <i>Unit should be powered by Limited Energy Source per IEC 61010-1 or Limited Power Source per IEC 60950-1 or IEC 62368-1</i>	
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 onlyAltitude: -400 m to 2000 mRelative Humidity: 0 – 90%Main supply voltage fluctuation up to 5%Overvoltage category: OVCIIPollution degree: PD2Ingress Protection: IP50	

5 Initial Sign In

- Introduction to Controller Management
- Activating the Account
- Log In
- Attaching the Farm to a Group
- Local Log In

5.1 Introduction to Controller Management

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

- Connect (activate) the CommBox to a RotemNet Web account
- Create a group
- Define user rights

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).

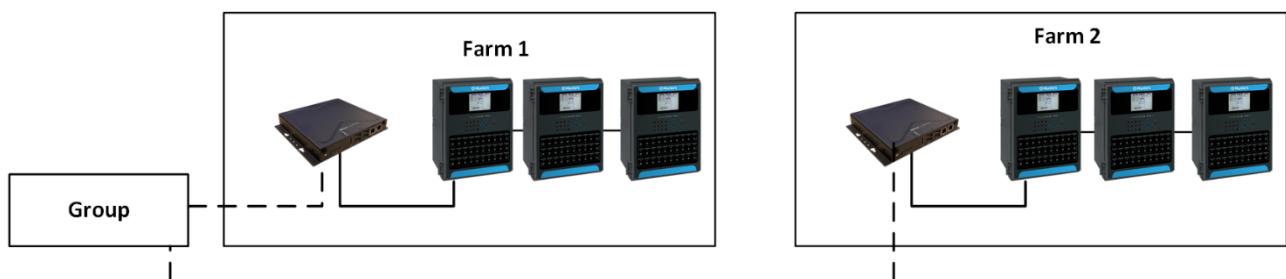


Figure 25: Group Example

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

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.

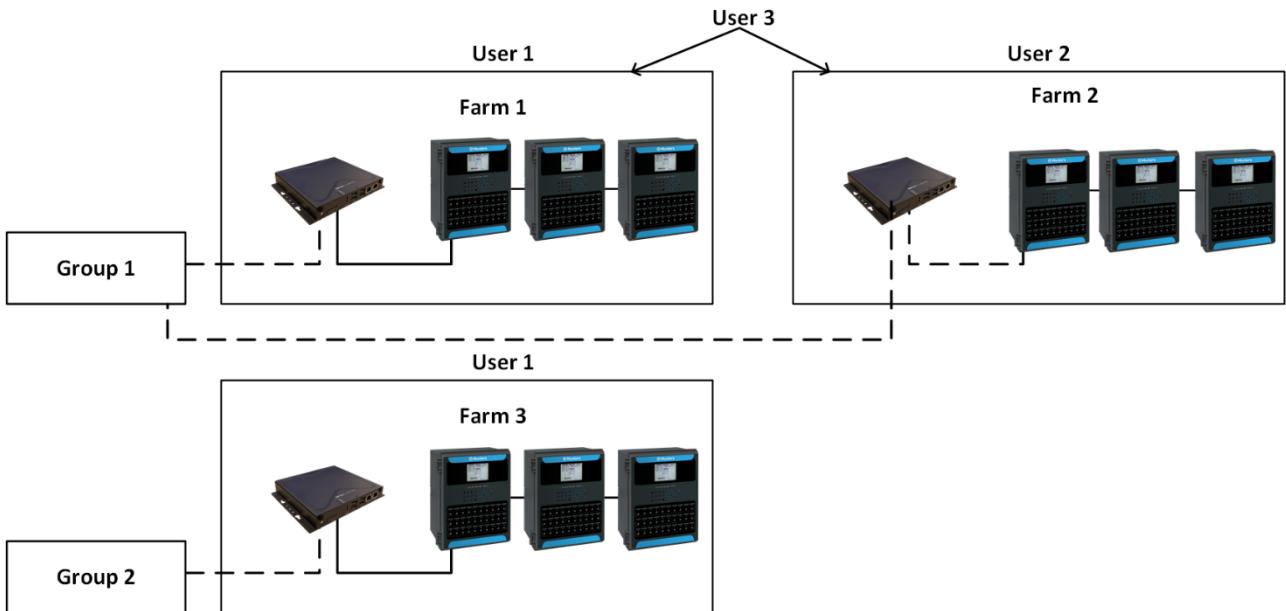


Figure 26: Assigning Farms to Groups

Any combination is possible.

5.2 Activating the Account

NOTE It is not required to physically connect the CommBox to controllers to activate the account. This step can be done at a later time.

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

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

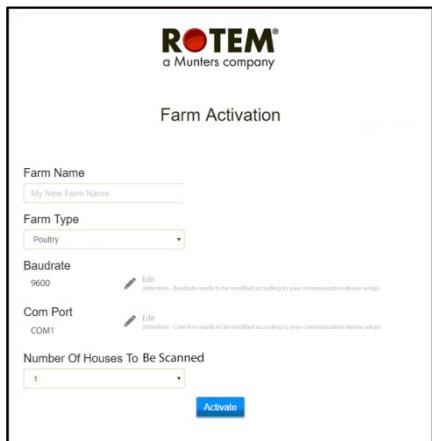


Figure 27: Activation Screen

2. Fill in the fields:

- Name: Type in the farm name.
- Farm Type: Choose the type from the drop-down list.
- Baud rate/Com Port: CommBox has default settings of 9600 BPS/COM Port 1, respectively. If you need to change these settings, click on the pencil and choose a setting from the drop-down list.
 - Verify that the CommBox and controller baud rates are the same.

- The Com Port must be Com Port 1.
- Number of Houses: Select the number from the drop-down list.

NOTE You can edit all these settings in RotemNet Web.

3. Click Activate. A pop up appears asking if you want to scan your farm houses.
 - Click Start Scan if the CommBox is connected to the controllers.
 - Click Cancel if the CommBox isn't connected.
4. A second pop-up appears, asking if you want to connect to the Web.
 - Click on the Connect to Web to connect your CommBox to the web. This enables remote monitoring and control.
 - If you want, you can be reminded to scan at a later time. (Alternatively, click Don't Remind Me Later).

NOTE If you decide not to connect now, you can always connect by clicking on the RotemNet Web Tab Farm Setting.

Only a farm owner can invite other people to join the group as well as define their access rights. This is done in RotemNet Web itself.

5.3 Log In

- If you have a RotemNet Web user name, log in.

Figure 28: Login Screen

1. If you are a new user, click Sign up now. The following screen appears.

Figure 29: Create a New User Screen

2. Fill in all fields.
3. Click Create a User. The following screen appears.

The screenshot shows the ROTEM Farm Web Connection sign-in page. At the top is the ROTEM logo and the text 'a Munters company'. Below that is the heading 'Farm Web Connection'. There are two main buttons: '1 User Login' and '2 Attach Farm to a Group'. Below these buttons, it says 'You are signed in.' followed by the user's name and email. At the bottom are 'Log Out' and 'Forgot your password' links.

Figure 30: Sign In Screen (Example)

NOTE To disconnect from the web, click the [Disconnect](#) button (refer to page 45).

5.4 Attaching the Farm to a Group

After signing in one of the following screens appears:

- No Existing Groups
- Groups Exist

5.4.1 NO EXISTING GROUPS

1. If there are no existing groups for this farm, the following screen appears:

The screenshot shows the 'Attach this Farm to a Farm Group' screen. It includes a note about what a farm group is, a note about attaching to one group only, and a table for entering group name and owner. The table has 'Group Name' and 'Owner' columns. It also includes a 'User Name's Farms' input field and a 'Goran' entry in the 'Owner' field. There are 'Add a Group' and 'Attach to Group' buttons at the bottom.

Figure 31: No Existing Group Screen

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

5.4.2 GROUPS EXIST

If the farm is part of a group or if the owner has created groups do one of the following:

- Check the radio box next to the group to which you want to attach your farm and click Attach to Group.

ROTEM®
a Munters company

Farm Web Connection

1 User Login **2 Attach Farm to a Group**

Attach this Farm to a Farm Group

What is a Farm 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 consists of **one farm only**.
A farm can be attached to more than one group.

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

Group Name	Owner
<input checked="" type="checkbox"/> My Group 1	Gorans
<input type="checkbox"/> My Group 2	Gorans

+ Add a Group

Attach to Group

Figure 32: Attach Farm to Group Screen

- To add an additional group, type in the Group Name and click Add a Group.

ROTEM®
a Munters company

Farm Web Connection

1 User Login **2 Attach Farm to a Group**

Attach this Farm to a Farm Group

What is a Farm 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 consists of **one farm only**.
A farm can be attached to more than one group.

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

Group Name	Owner
<input type="checkbox"/> My Group 1	Gorans
<input type="checkbox"/> My Group 2	Gorans
<input checked="" type="checkbox"/> New Farm Group Name	

+ Add a Group

Attach to Group

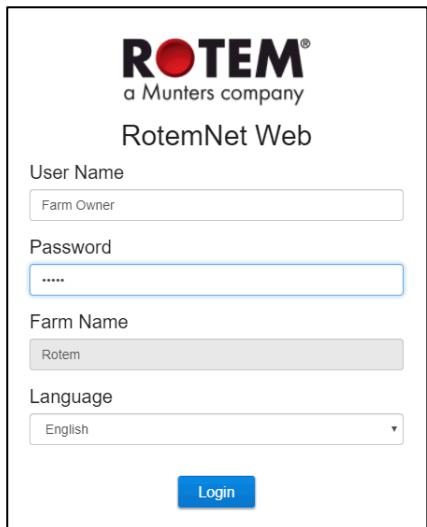
Figure 33: Add a Group Screen

5.5 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.



ROTEM®
a Munters company

RotemNet Web

User Name

Password

Farm Name

Language

Login

Figure 34: Farm Settings

- 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 (Log In, page 26).

6 RotemNet Web

The following sections describe how to use the RotemNet Web functions. Actual controller functions are described in the Platinum Touch/Rotem One manual.

- Sign In
- My Farm Groups
- Manage Groups
- User Settings
- RotemNet Farm Management
- Software Upgrade
- 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.

RotemNet Web

Selected Region

AMERICA

Language

English

User Email Address

My RotemNetWeb User Email address

Password

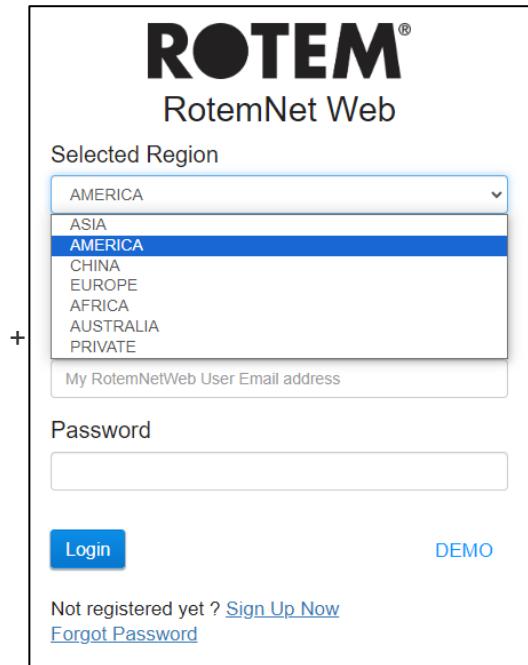
Login

DEMO

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

Figure 35: Standard Sign In

- 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 that is a section titled "Selected Region" with a dropdown menu. The dropdown menu lists "AMERICA", "ASIA", "AMERICA" (which is highlighted in blue), "CHINA", "EUROPE", "AFRICA", "AUSTRALIA", and "PRIVATE". Below the dropdown is a text input field labeled "My RotemNetWeb User Email address". Underneath that is a password input field labeled "Password". At the bottom of the form are two buttons: "Login" and "DEMO". Below the form, there is a note: "Not registered yet? [Sign Up Now](#) [Forgot Password](#)".

Figure 36: Region Selection

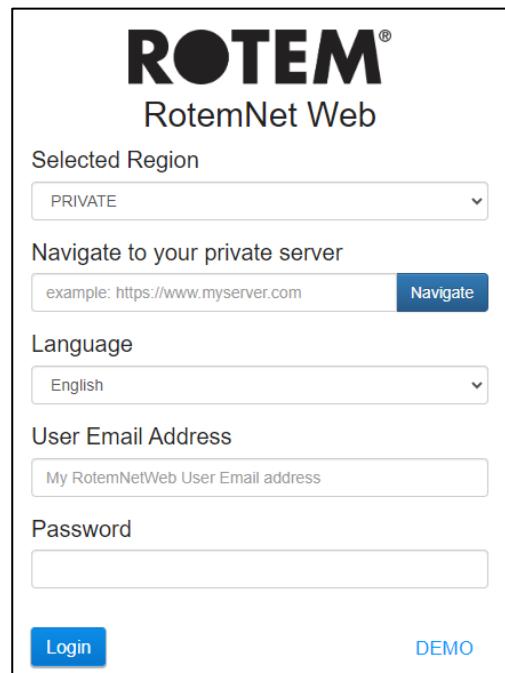
- Enter the email address and password, and click **Login**.

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

6.1.2 PRIVATE SERVER

If your farm is connected to a private server system:

- Click **Private** from the Selected Region. The following screen appears.



The screenshot shows the RotemNet Web login interface for a private server. The "Selected Region" dropdown is set to "PRIVATE". Below it is a section titled "Navigate to your private server" with a text input field "example: https://www.myserver.com" and a "Navigate" button. There are also fields for "Language" (set to "English"), "User Email Address" (input field "My RotemNetWeb User Email address"), and "Password" (input field). At the bottom are the "Login" and "DEMO" buttons.

Figure 37: 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:

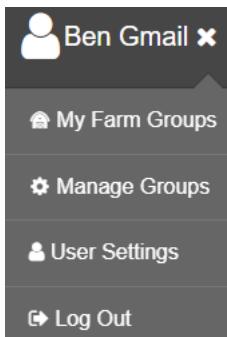


Figure 38: User Group Access

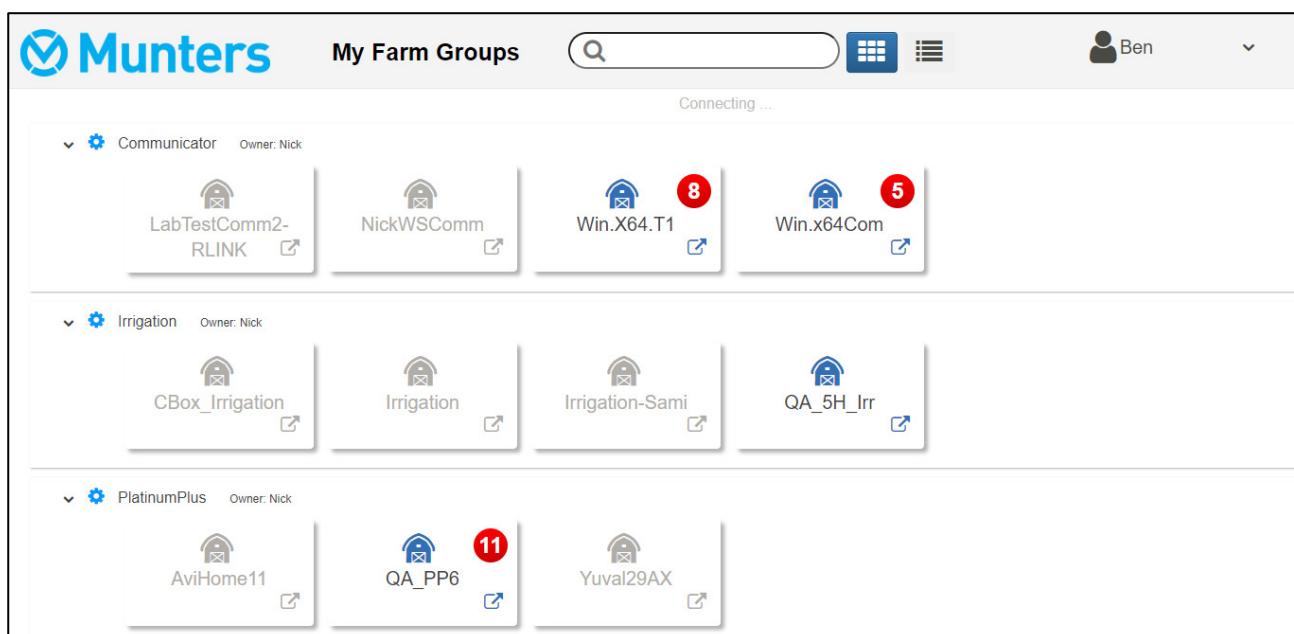
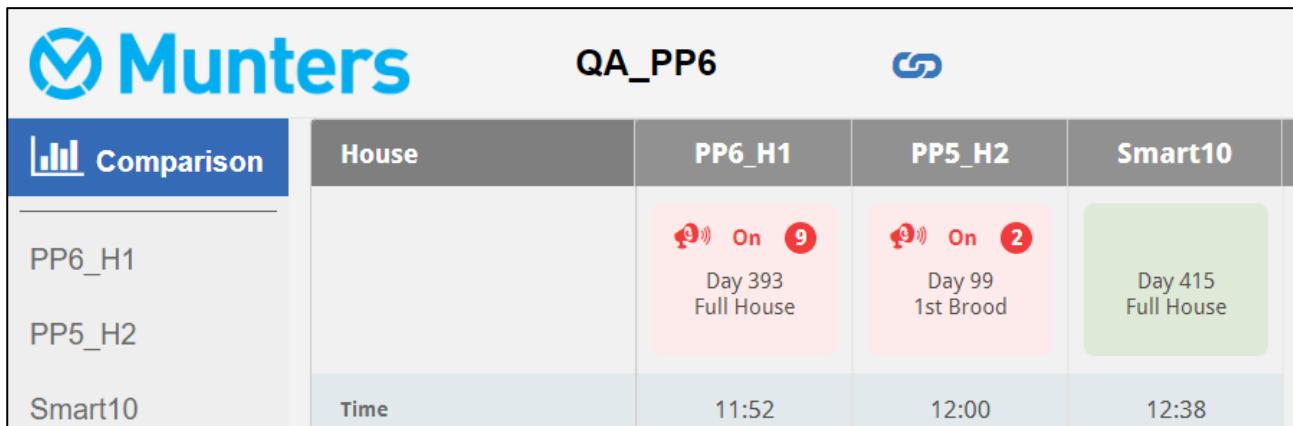
A screenshot of the 'My Farm Groups' screen. The interface includes a header with the Munters logo, a search bar, and a user profile. Below the header, the page title is 'My Farm Groups' and a status message says 'Connecting ...'. The main content is organized into three sections: 'Communicator' (Owner: Nick), 'Irrigation' (Owner: Nick), and 'PlatinumPlus' (Owner: Nick). Each section contains a list of farms with their status (green for online, grey for offline) and a red circle indicating the number of active alarms. For example, in the 'Communicator' section, 'Win.X64.T1' has 8 alarms and 'Win.x64Com' has 5 alarms. In the 'PlatinumPlus' section, 'QA_PP6' has 11 alarms. Each farm entry includes a refresh icon.

Figure 39: My Farm Groups Screen

The screen shows:

- the groups and their status (on-line/off-line).
- the number of active alarms in each active farm. For example, there are 11 alarms in QA_PP6. Click the icon to see each controller's particular alarms.

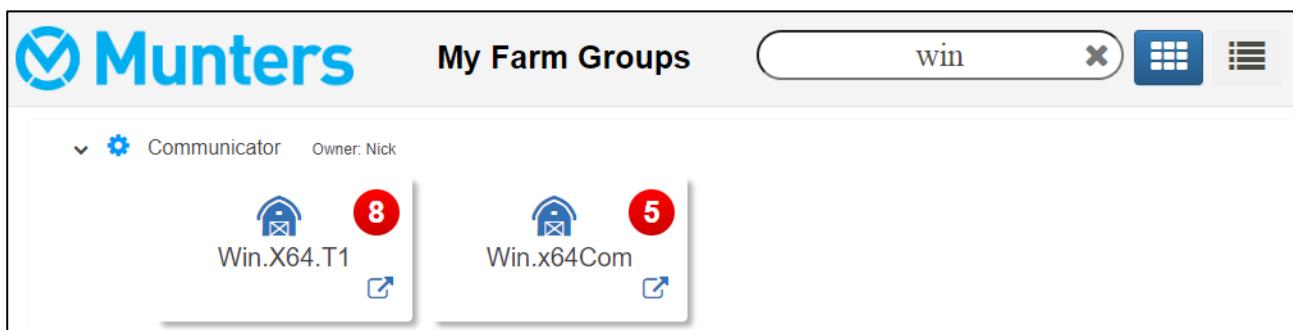


The screenshot shows a comparison of three controller types: House, PP6_H1, and Smart10. The House row is empty. The PP6_H1 row shows 9 alarms (9 red circles) for 'Day 393 Full House'. The Smart10 row shows 2 alarms (2 red circles) for 'Day 99 1st Brood'. The Smart10 row is highlighted in green. The table has columns for Controller Type, Time, and the number of alarms.

Comparison	House	PP6_H1	PP5_H2	Smart10
PP6_H1		9 On Day 393 Full House		
PP5_H2			2 On Day 99 1st Brood	
Smart10	Time	11:52	12:00	12:38

Figure 40: Controller Alarm Information, Comparison Screen

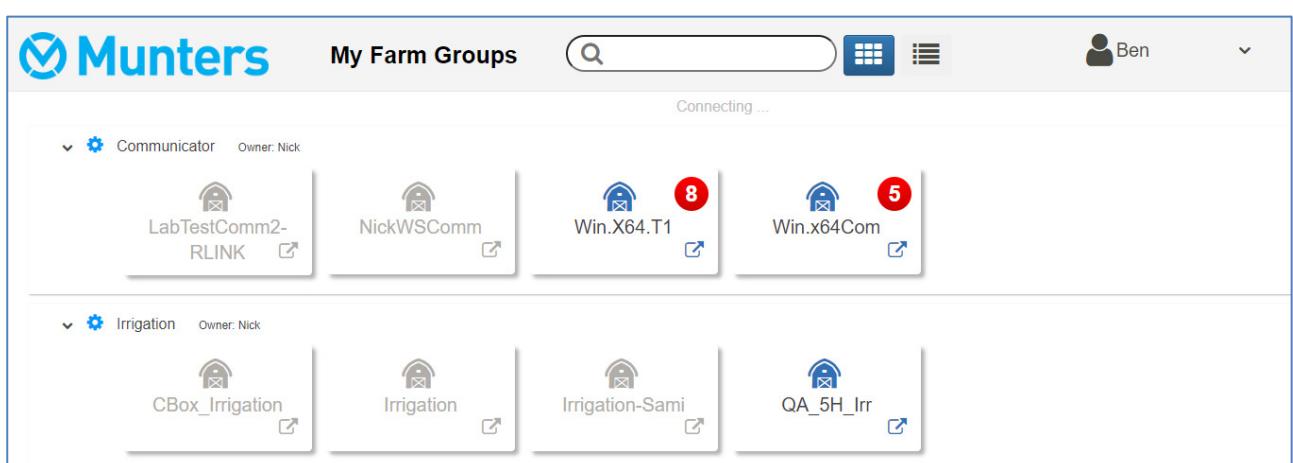
- To find a particular farm group, search for the name in the search bar.



The screenshot shows the 'My Farm Groups' search interface. A search bar at the top contains the text 'win'. Below it, a list of farm groups is shown, including 'Win.X64.T1' (8 alarms) and 'Win.x64Com' (5 alarms). A search icon (magnifying glass) and a list icon (grid with lines) are visible in the top right.

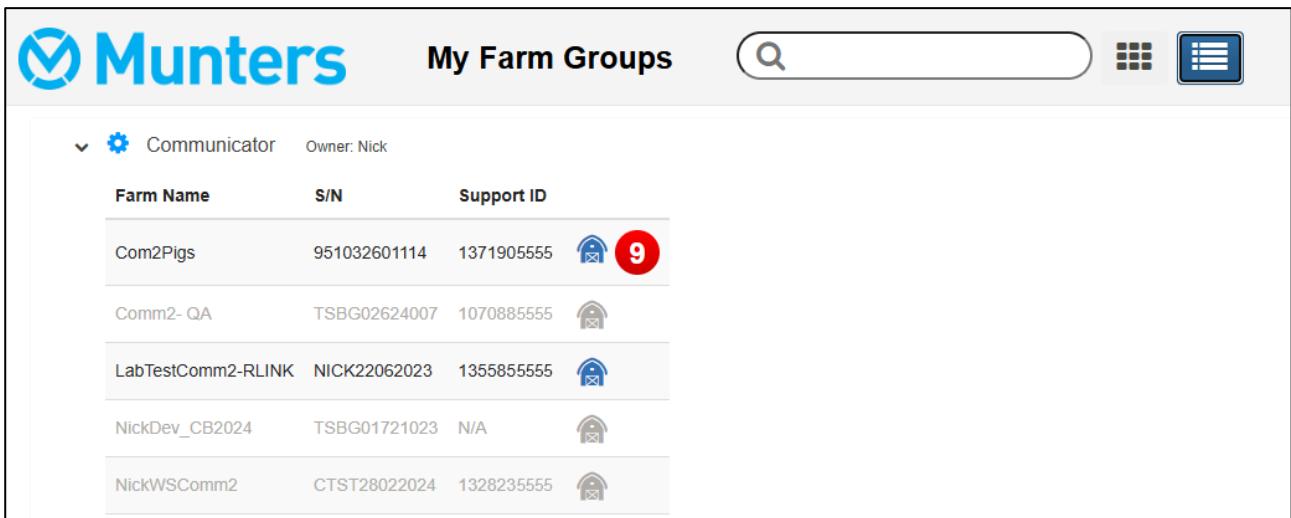
Figure 41: Search Function

- Farms can be displayed in a grid (Figure 42, click ) or in a list (Figure 43, click )



The screenshot shows the 'My Farm Groups' grid view. It displays two sections: 'Communicator' (8 alarms) and 'Irrigation' (5 alarms). Each group is represented by a card with a farm icon, the group name, and the number of alarms. A search bar, a grid icon, and a list icon are at the top right. A user profile 'Ben' is shown in the top right corner.

Figure 42: Grid View



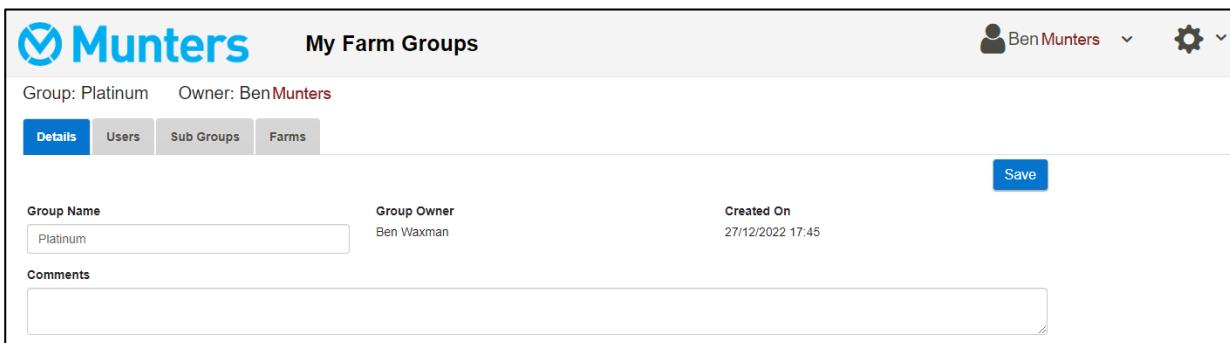
Farm Name	S/N	Support ID	
Com2Pigs	951032601114	1371905555	 
Comm2- QA	TSBG02624007	1070885555	
LabTestComm2-RLINK	NICK22062023	1355855555	
NickDev_CB2024	TSBG01721023	N/A	
NickWSComm2	CTST28022024	1328235555	

Figure 43: List View

- Click any icon to go to the group's farms (refer to RotemNet Farm Management, page 40).
- Click the settings icon  to view and manage the group's users and farms (Manage Groups, page 38).

6.2.1 DETAILS (OPTIONAL)

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



Group: Platinum Owner: BenMunters

Details Users Sub Groups Farms

Group Name: Platinum Group Owner: Ben Waxman Created On: 27/12/2022 17:45

Comments:

Save

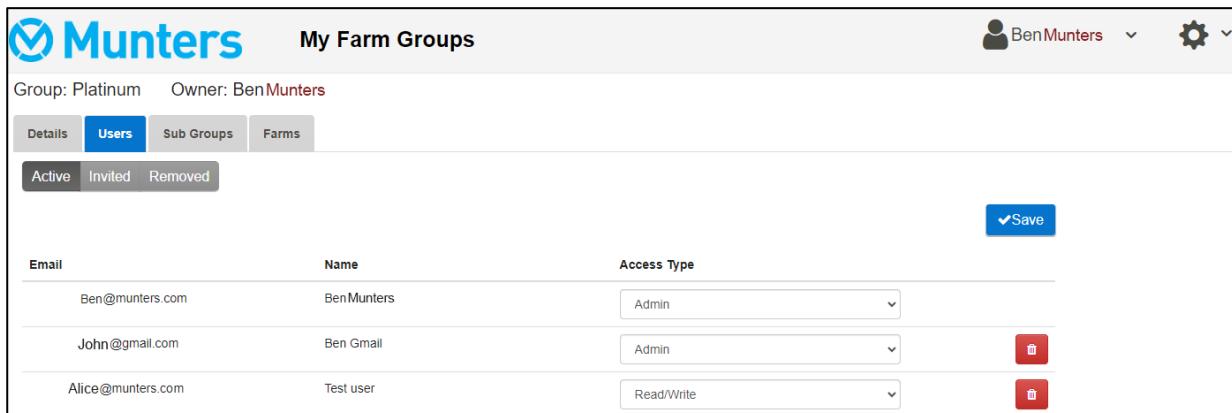
Figure 44: Details Screen

6.2.2 USERS

Click the Users tab to manage all group users.

- Existing Users
- New Users

6.2.2.1 Existing Users



Email	Name	Access Type
Ben@munters.com	BenMunters	Admin
John@gmail.com	Ben Gmail	Admin
Alice@munters.com	Test user	ReadWrite

Figure 45: Existing Users Screen

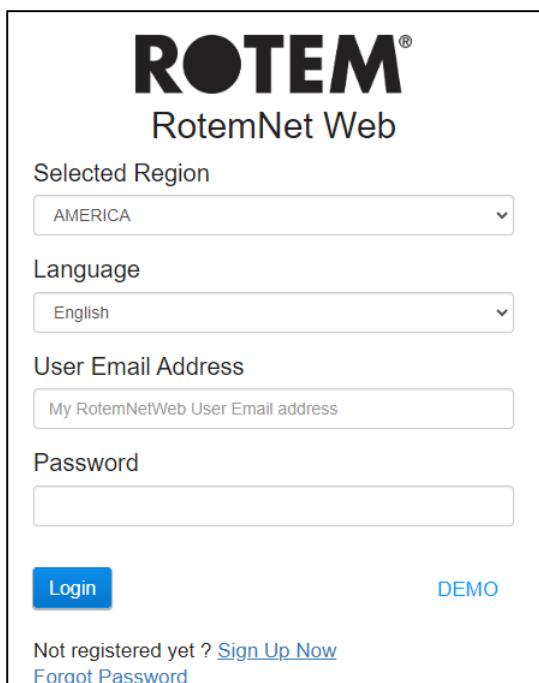
- On this screen, delete users or change the permissions of existing users.

6.2.2.2 New Users

New users who are not part of the system must first sign up before being invited. If the user has an existing email address in the RotemNet Web system, go to Inviting a New User.

6.2.2.2.1 Creating a New User

1. Have the user go to rotemnetweb.com.



Selected Region: AMERICA

Language: English

User Email Address: My RotemNetWeb User Email address

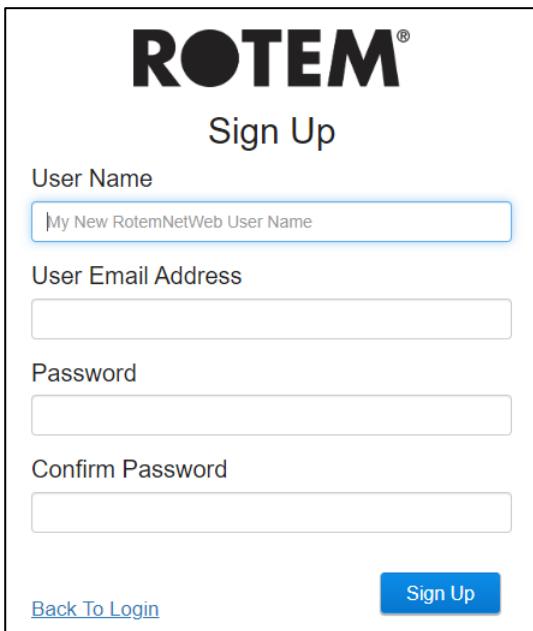
Password: (empty field)

Buttons: Login, DEMO

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

Figure 46: Sign In Screen

2. Click Sign Up Now.



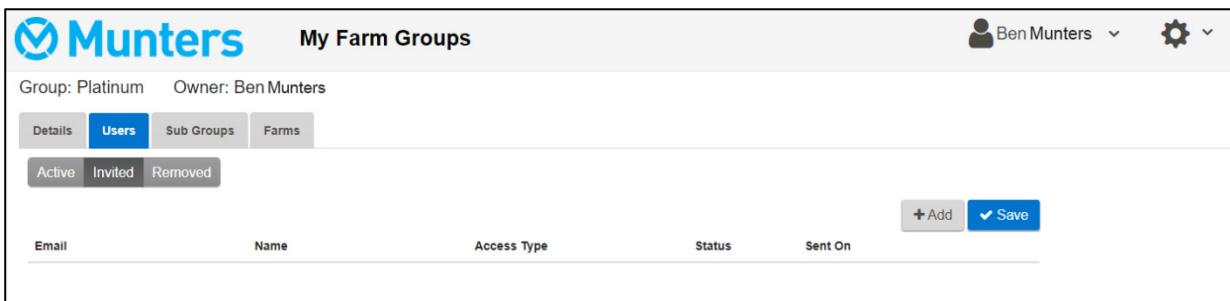
The image shows the Rotem Sign Up screen. At the top is the Rotem logo. Below it is the word "Sign Up". There are four input fields: "User Name" with the placeholder "My New RotemNetWeb User Name", "User Email Address", "Password", and "Confirm Password". At the bottom left is a "Back To Login" link, and at the bottom right is a "Sign Up" button.

Figure 47: Sign Up Screen

3. Fill in the fields and click Sign Up.

6.2.2.2 Inviting a New User

Once the user has created an account, the farm owner goes to the User>Invited screen (only the owner can invite new users).



The image shows the Munters User screen for "My Farm Groups". The top navigation bar includes the Munters logo, the group name "Platinum", the owner "Ben Munters", and a gear icon. The main area is titled "My Farm Groups" and shows a table with columns: Email, Name, Access Type, Status, and Sent On. The "Users" tab is selected. Below the table are buttons for "+ Add" and "Save".

Figure 48: User Screen

1. Click Add.

2. In the Email field, enter the new user's email address. This address must be registered. See the following sections for details on creating a user.

3. Define the Access Type (permissions).

- **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 does 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.

NOTE Only an owner can invite 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)

4. Click Invite.

The user will receive an email asking him/her to accept the invitation.

6.2.3 FARMS

The Farms screen lists the farms in this group.

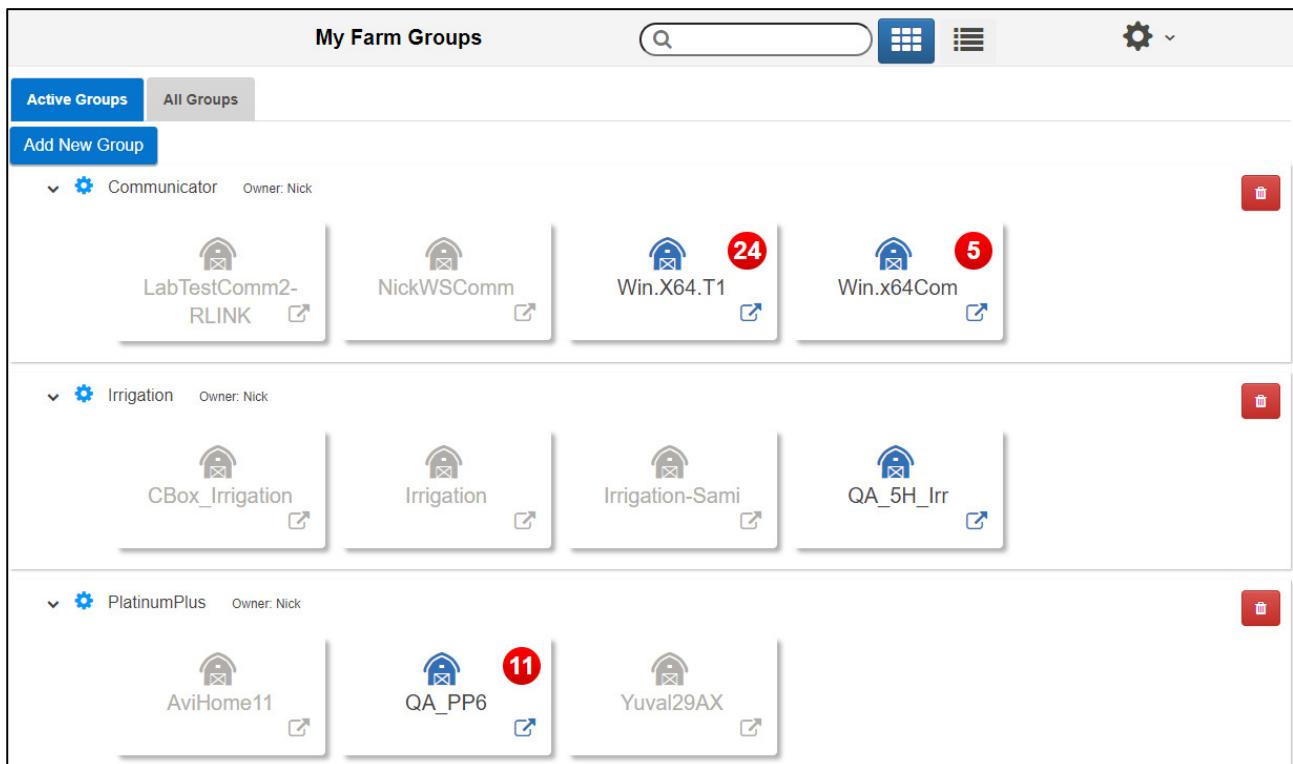
The screenshot shows the 'My Farm Groups' screen. At the top, it displays 'Group: Communicator' and 'Owner: Nick'. The navigation bar includes tabs for 'Details', 'Users', 'Sub Groups', and 'Farms', with 'Farms' being the active tab. The main content area lists four farms with their names and edit/delete icons:

Farm Name	Actions
NickWSComm	
LabTestComm2-RLINK	
Win.x64.Com	
Win.X64.T1	

Figure 49: 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.



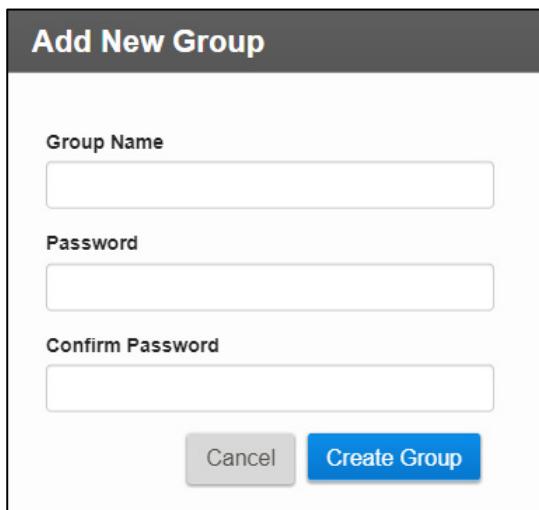
The screenshot shows the 'My Farm Groups' interface. At the top, there are tabs for 'Active Groups' (selected) and 'All Groups'. Below this, there is a 'Add New Group' button. The screen is divided into three main sections corresponding to the groups:

- Communicator:** Shows 24 farms. The first farm is 'LabTestComm2-RLINK'. Other farms include 'NickWSComm', 'Win.X64.T1' (with a red badge '24'), and 'Win.x64Com' (with a red badge '5').
- Irrigation:** Shows 4 farms. The first farm is 'CBox_Irrigation'. Other farms include 'Irrigation', 'Irrigation-Sami', and 'QA_5H_Irr'.
- PlatinumPlus:** Shows 3 farms. The first farm is 'AviHome11'. Other farms include 'QA_PP6' (with a red badge '11') and 'Yuval29AX'.

Each farm item has a red delete icon in the top right corner.

Figure 50: Manage Groups Screen

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



The dialog box has a dark header bar with the text 'Add New Group'. Below it are three input fields:

- Group Name:** An empty text input field.
- Password:** An empty text input field.
- Confirm Password:** An empty text input field.

At the bottom are two buttons: 'Cancel' (gray) and 'Create Group' (blue).

Figure 51: 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.

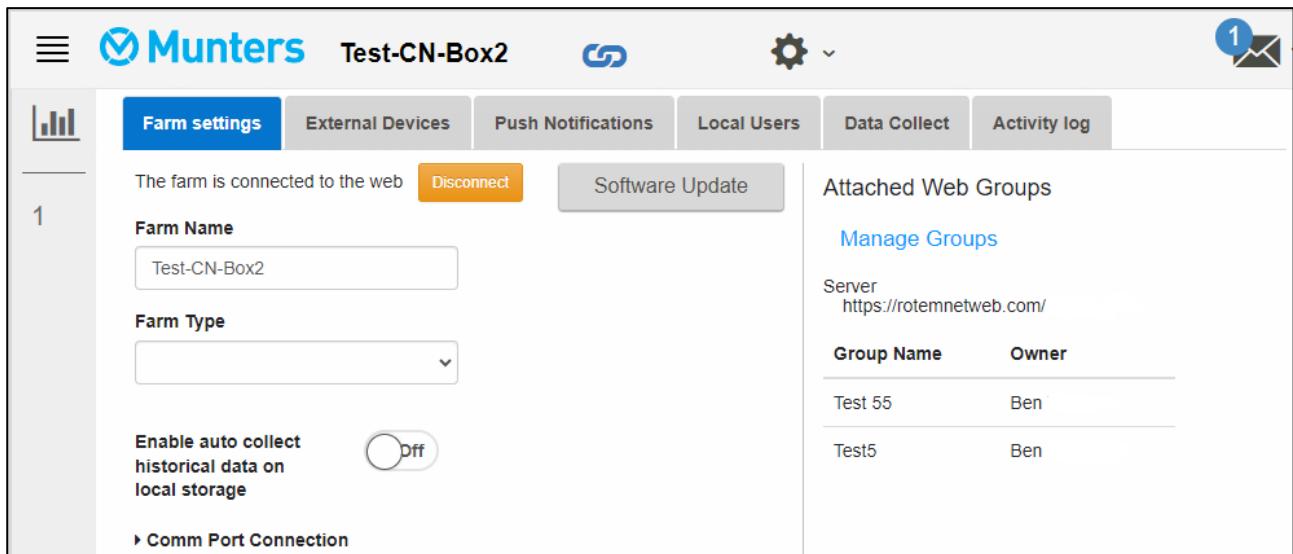


Figure 52: Farm Settings Screen

3. Click Manage Groups and attach the farm to a group (refer to Groups Exist, page 27).

6.4 User Settings

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

User Settings. The following screen appears.

The screenshot shows the 'User Settings' screen. On the left, a vertical list of house numbers from 1 to 7 is displayed. The main area is titled 'User Settings' and contains the following fields for 'House 1' (the selected house, indicated by a blue border):

- Display Name:** Farm Owner
- User Email Address:** QA-PIGS@gmail.com
- Phone Number:** (empty field)
- Language:** English (selected)
- Unit Types:** Metric (selected)
- Temp Units:** C (selected)
- Pressure Units:** PASCAL (selected)
- Wind Speed Units:** M/Sec (selected)
- Stand By Mode:** A section with two radio buttons: 'Activate Stand By Mode After 15 Minutes Of No Activity' (selected) and 'Disable Stand By Mode'.

Figure 53: User Settings Screen

- 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: Choose 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 Farm Management

- Farm Summary and Comparison
- Comparison Screen
- RotemNet Screen Appearance
- RotemNet Web Functionality

6.5.1 FARM SUMMARY AND COMPARISON

Click Comparison to view a summary of houses' activity.

Munters		Win.X64.T1		🔗	👤	Customize	Ben	⚙️	✉️
Comparison		House	House 1	House 2	House 3	House 4	House 5	House 6	House 7
House 1	Outside Temperature		11.2 °C						
House 2	Vent. Mode	Minimum Vent.							
House 3	Vent. Level	1630	1630	1630	1630	1630	1630	1630	1630
House 4	Vent. Level CFM	152,910	152,910	152,910	152,910	152,910	152,910	152,910	152,910
House 5	Status	Off							
House 6	Cycle Time	135	120	119	119	117	143	141	
House 7	Set Temperature	26.0 °C							
House 8	Target Pressure	29	29	29	29	29	29	29	29
	Humidity Treatment	Off	950	Off	Off	Off	Off	Off	Off
	Daily Water	22772	22778	22778	22779	22779	22769	22770	
	Total Water Per Hour	949	950	950	950	950	948	948	
	Average Weight	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Figure 54: Comparison Houses Screen

- Version 4.7.2.X supports displaying the Total Water Per Hour.
- Click on House to go to the controller functions.
- Click on  to configure RotemNet Web functionality.

- Click on  Farm Owner **▼** to configure the user definitions.

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**.

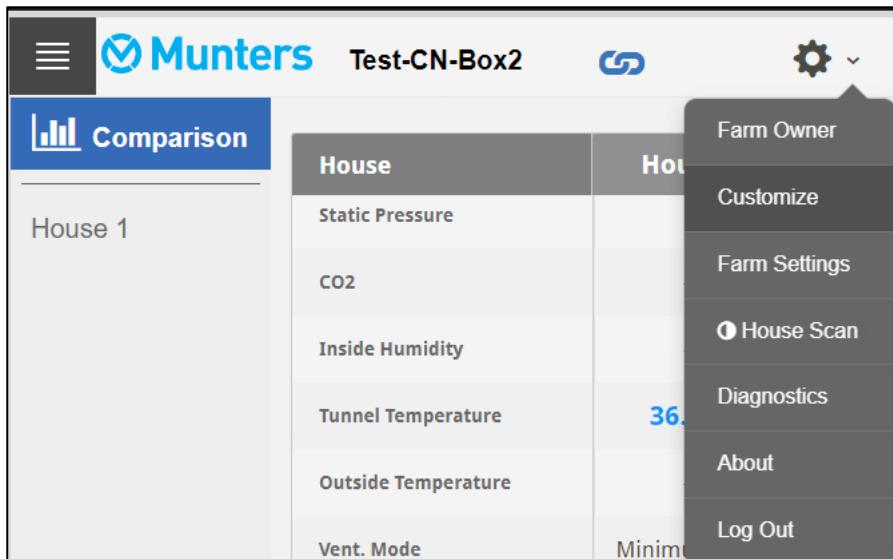


Figure 55: Customize Feature

2. For each section, select the background color.

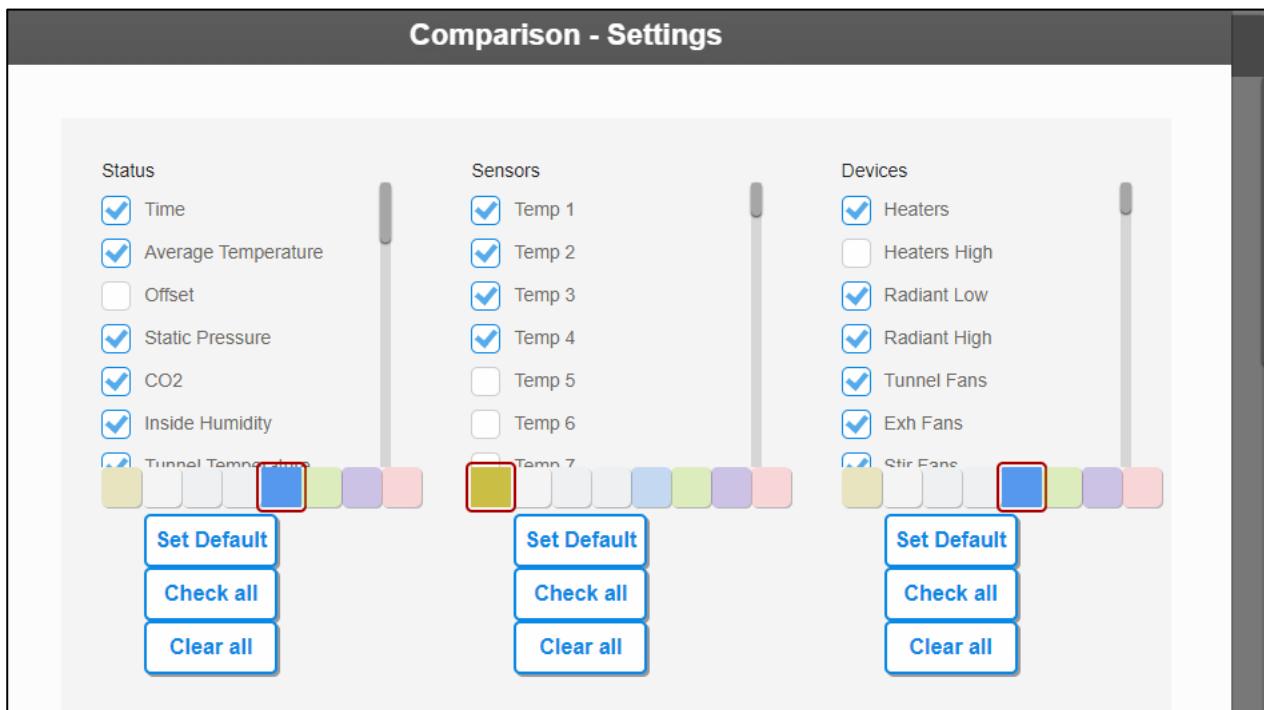


Figure 56: Comparison Settings Screen

3. The screen displays the background colors.

House	House 1
Daily Water	0
Average Weight	0.000
% CFM	9
Temp 1	99.1 C°
Temp 2	21.9 C°
Temp 3	17.5 C°
Temp 4	41.7 C°
Wind Chill	36.1 C°
Heaters	---
Radiant Low	---
Radiant High	---

Figure 57: Color Selection Screen

6.5.3 ROTEMNET SCREEN APPEARANCE

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

The farm is connected to the web [Disconnect](#) [Software Update](#)

Farm Name
Queens Gambit

Farm Type

Baud Rate
9600

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

Com Port
COM1

(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

[Save Changes](#) [Rescan Farm Houses](#)

Attached Web Groups

[Manage Groups](#)

Server <https://rotemnetweb.com/>

Group Name	Owner
Platinum	Ben

Figure 58: Local Connection

Queens Gambit

Farm settings Data Collect Activity log General Settings

Farm Name: Queens Gambit

Farm Type:

Baud Rate: 9600

Com Port: COM1

Your contact info for support:

User Email Address:

Phone Number:

Address:

Figure 59: Web Connection

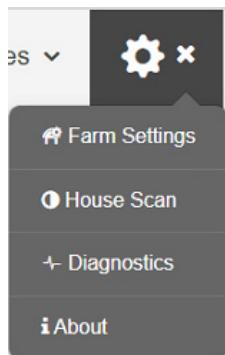


Figure 60: Local Connection Settings

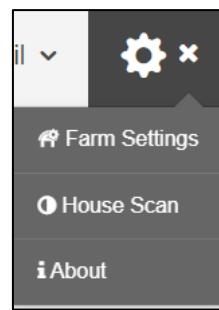


Figure 61: Web Connection Settings (administrator)

In addition, when connected via the web, the user has easy access to his/her groups (Refer to My Farm Groups, page 32).

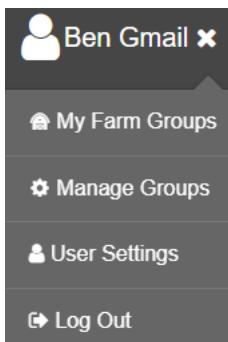
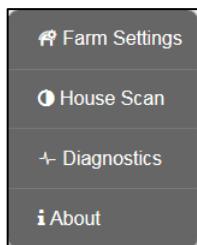


Figure 62: User Group Access

6.5.4 ROTEMNET WEB FUNCTIONALITY

The following section describes the RotemNet Web functions.



- Farm Settings Tab
- House Scan Tab

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

6.5.4.1 Farm Settings Tab

- Farm Settings
- Push Notifications
- Local Users
- Data Collect
- Activity Log
- General Settings

NOTE The “Local Users” tab appears only on the computer screen connected directly to the CommBox.

6.5.4.1.1 Farm Settings

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

- This function appears both for local and web access connections.

The farm is connected to the web [Disconnect](#) [Software Update](#)

Farm Name
Win.X64.T7

Farm Type
Poultry

Enable storing history data on local device automatically or

▶ Comm Port Connection
▶ Your contact info for support

Number Of Houses To Be Scanned [Edit](#)

House Number	House Name	House Number	House Name
1	House 1	17	House 17
2	House 2	18	House 18
3	House 3	19	House 19

[Save Changes](#) [Rescan Farm Houses](#)

Figure 63: 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 (refer to Log In, page 26).

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

- **Farm Type:** Poultry or Pigs. Make sure that the definition matches the CommBox type!
- **(Version 4.7.4.19) Enable storing history data on local drive automatically:**
 - When enabled, CommBox 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.
- **Com Port Connections**
 - **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.
- **Com Port:** Define the communication port. Default: COM1
- **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.
- **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.
 - In units having the CommBox Pig Software, you can name individual rooms.
- **Click Save Changes.**
- **System Update:** Refer to Software Upgrade.

6.5.4.1.2 Push Notifications

CommBox can send push notifications to multiple email addresses. These emails list any current alarms.

- This function appears both for local and web access connections..

Figure 64: Push Notifications Screen

- Enter an address, click Check, Add, and then Save.
 - The CommBox Push Notification system does not provide detailed alarm information. The system is indicative only. To receive real-time alarms along with the ability to configure and manage alarms, contact your dealer about an independent alarms system (for example the Communicator).
 - If a group of alarms are generated simultaneously (for example, Hi Temperature, CO2, and ammonia) only one email (listing all three alarms) is sent. If any of the issues that caused an alarm to be generated is resolved, a new email is sent out listing the current alarms. For example, if the temperature goes down, an email listing CO2 and ammonia alarms is sent).

6.5.4.1.3 Local Users

- This function appears local access connections only.

Farm settings	Push Notifications	Local Users	Data Collect	Activity log
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 65: Local Users Screen

This screen lists pre-assigned user names and passwords.

- Username and password are 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.

6.5.4.1.4 Data Collect

Refer to Appendix B: Data Collection, page 65.

- This function appears both for local and web access connections.

6.5.4.1.5 Activity Log

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

- This function appears both for local and web access connections.

Farm settings	Push Notifications	Local Users	Data Collect	Activity log			
Gateway Name	From Date	To Date	Event	Sub Event			
John Smith	07/08/2018 00:00	10/08/2018 00:00	<input type="button" value="▼"/>	<input type="button" value="▼"/>			
<input type="button" value="User"/> <input type="button" value="Cmd ID"/> <input type="button" value="Refresh"/>							
Event Date	Gateway	Event	Sub Event	User	Elapsed	House #	Cmd ID

Figure 66: Activity Log Screen

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

6.5.4.1.6 General Settings

Refer to Appendix B: Data Collection, page 65.

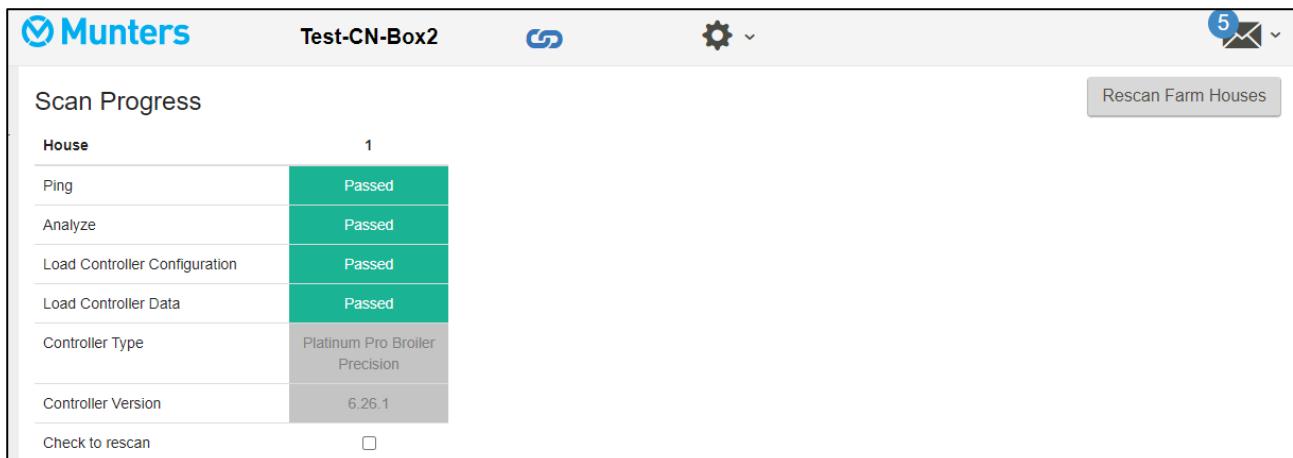
- This function appears in web access connections only.

6.5.4.2 House Scan Tab

- This function appears in both local and web access connections.

The House Scan screen:

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



The screenshot shows a web-based interface for a 'House Scan'. At the top, it displays 'Munters' logo, the connection 'Test-CN-Box2', a gear icon for settings, and a notifications icon with 5 messages. On the right, there is a 'Rescan Farm Houses' button. The main area is titled 'Scan Progress' and shows a table for 'House 1'. The table includes the following data:

House	1
Ping	Passed
Analyze	Passed
Load Controller Configuration	Passed
Load Controller Data	Passed
Controller Type	Platinum Pro Broiler Precision
Controller Version	6.26.1
Check to rescan	<input type="checkbox"/>

Figure 67: House Scan Screen

6.6 Software Upgrade

- Upgrade Procedure
- User Information

6.6.1 UPGRADE PROCEDURE

- This function appears when connected locally.

You can upgrade certain software programs from the Web application.

- Platinum Touch software
- Web application
- CommBox software

NOTE The CommBox can only be updated locally; 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 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' USB port.
2. In the web application, click the Farm Settings tab. The following screen appears.



Figure 68: Farm Settings – System Update Button

3. Click System Update. The following screen appears:

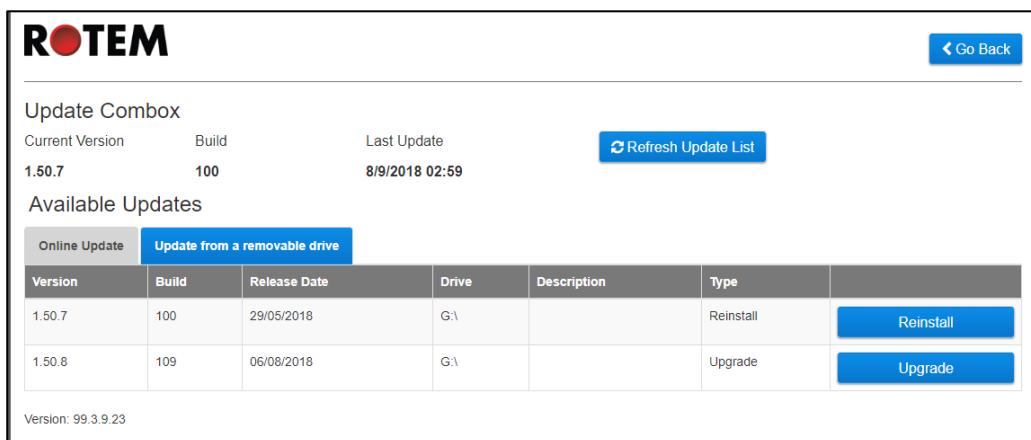


Figure 69: System Update Screen

- 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.

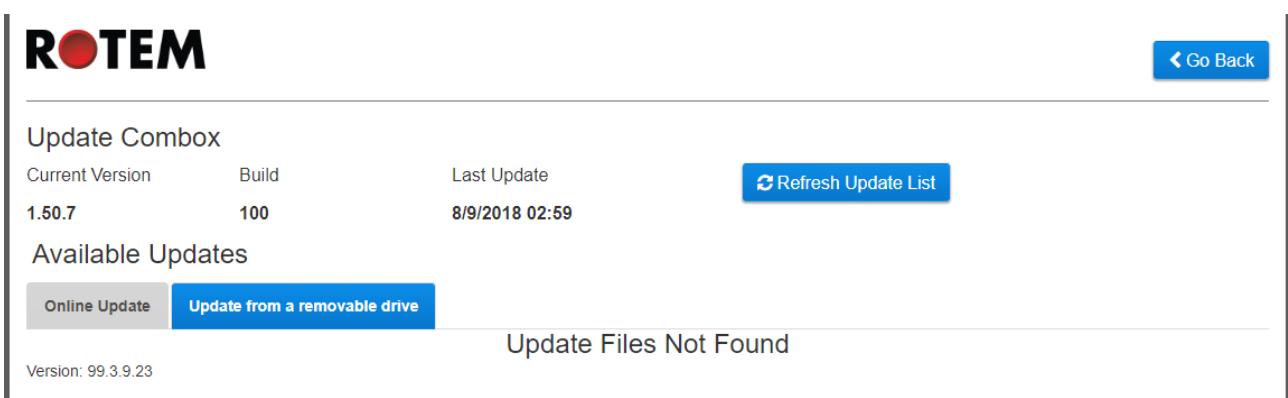
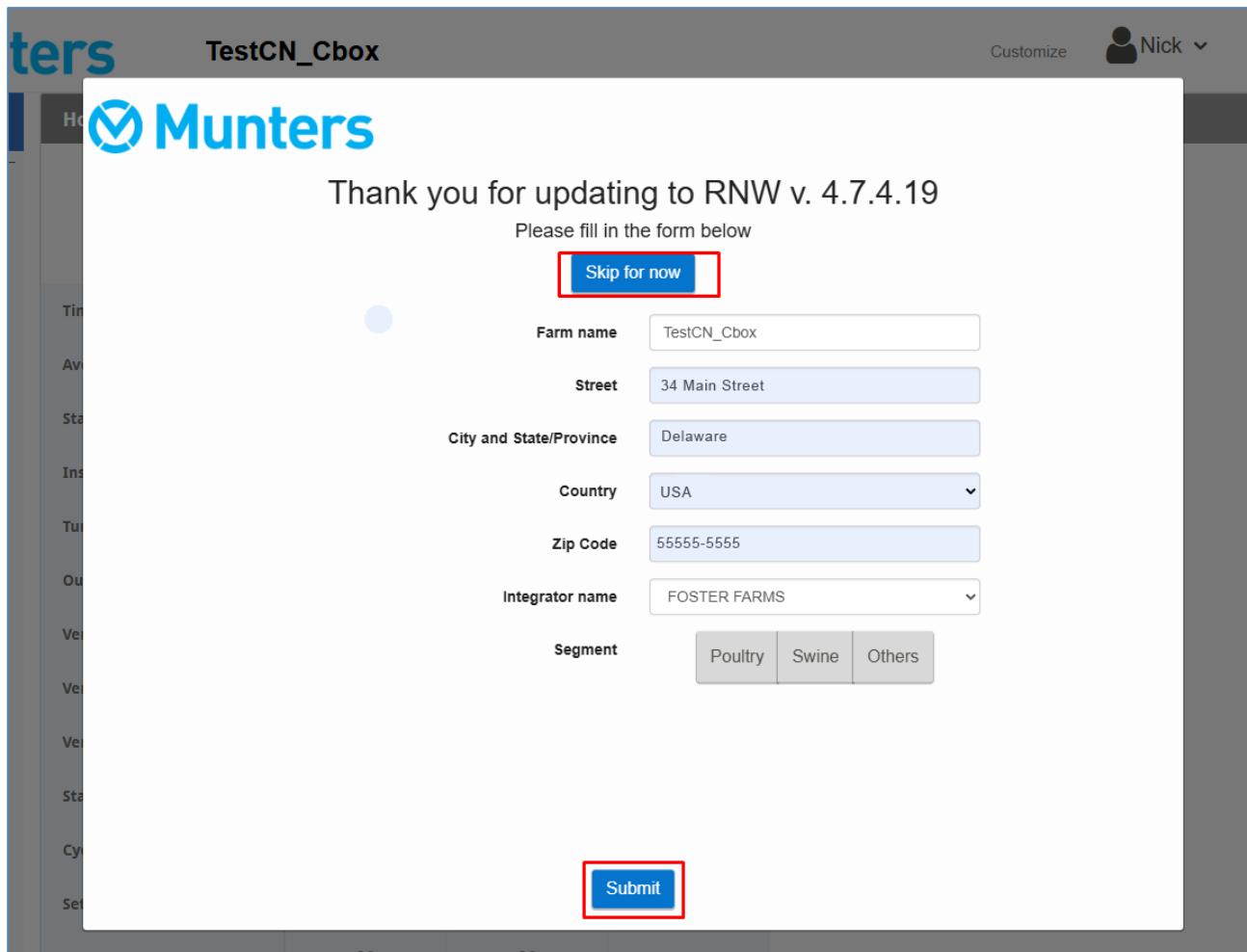


Figure 70: System Update Error

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 body.



The screenshot shows a user information form titled 'TestCN_Cbox'. At the top, there is a 'Skip for now' button with a red border. Below it are several input fields: 'Farm name' (TestCN_Cbox), 'Street' (34 Main Street), 'City and State/Province' (Delaware), 'Country' (USA), 'Zip Code' (55555-5555), 'Integrator name' (FOSTER FARMS), and a 'Segment' dropdown with options 'Poultry', 'Swine', and 'Others'. At the bottom is a 'Submit' button with a red border.

Figure 71: User Information Screen

6.7 About Tab

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

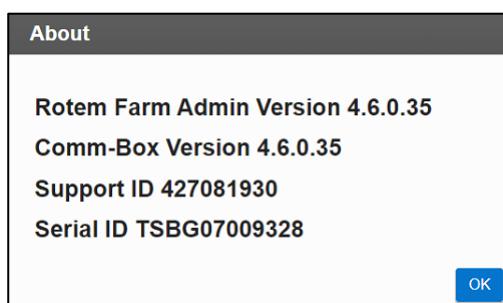


Figure 72: About Screen

7 Diagnostics

CommBox 4.6.0.35 includes a basic diagnostics package.

- This function appears in local access connections only.

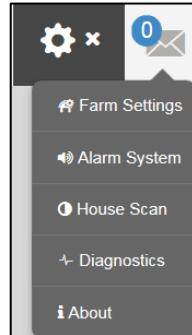


Figure 73: Diagnostics Selection

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

Serial Number	Version	Pass	Fail
TSBG07009328	1.50.8.46035		
Diagnostic Tests			
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	<input type="button" value="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.	<input type="button" value="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.	<input type="button" value="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	<input type="button" value="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."	<input type="button" value="Run Test"/>	

Figure 74: 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.

- 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 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 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 	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Com4 Connection 9600 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> House Number 1 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> Repeatable </div> <div style="background-color: #0070C0; color: white; text-align: center; padding: 5px; border-radius: 5px; margin-bottom: 5px;"> Run Test </div> <div style="background-color: #C0F0C0; color: #0070C0; text-align: center; padding: 5px; border-radius: 5px; margin-bottom: 5px;"> ✓ 1.2609012 </div>			

Figure 75: 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 	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Com4 Connection 9600 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> House Number 1 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> Repeatable </div> <div style="background-color: #0070C0; color: white; text-align: center; padding: 5px; border-radius: 5px; margin-bottom: 5px;"> Run Test </div> <div style="background-color: #C0F0C0; color: #0070C0; text-align: center; padding: 5px; border-radius: 5px; margin-bottom: 5px;"> ✓ 27.481028 </div>			

Figure 76: Repeatable Tests

- Enables a speed test.

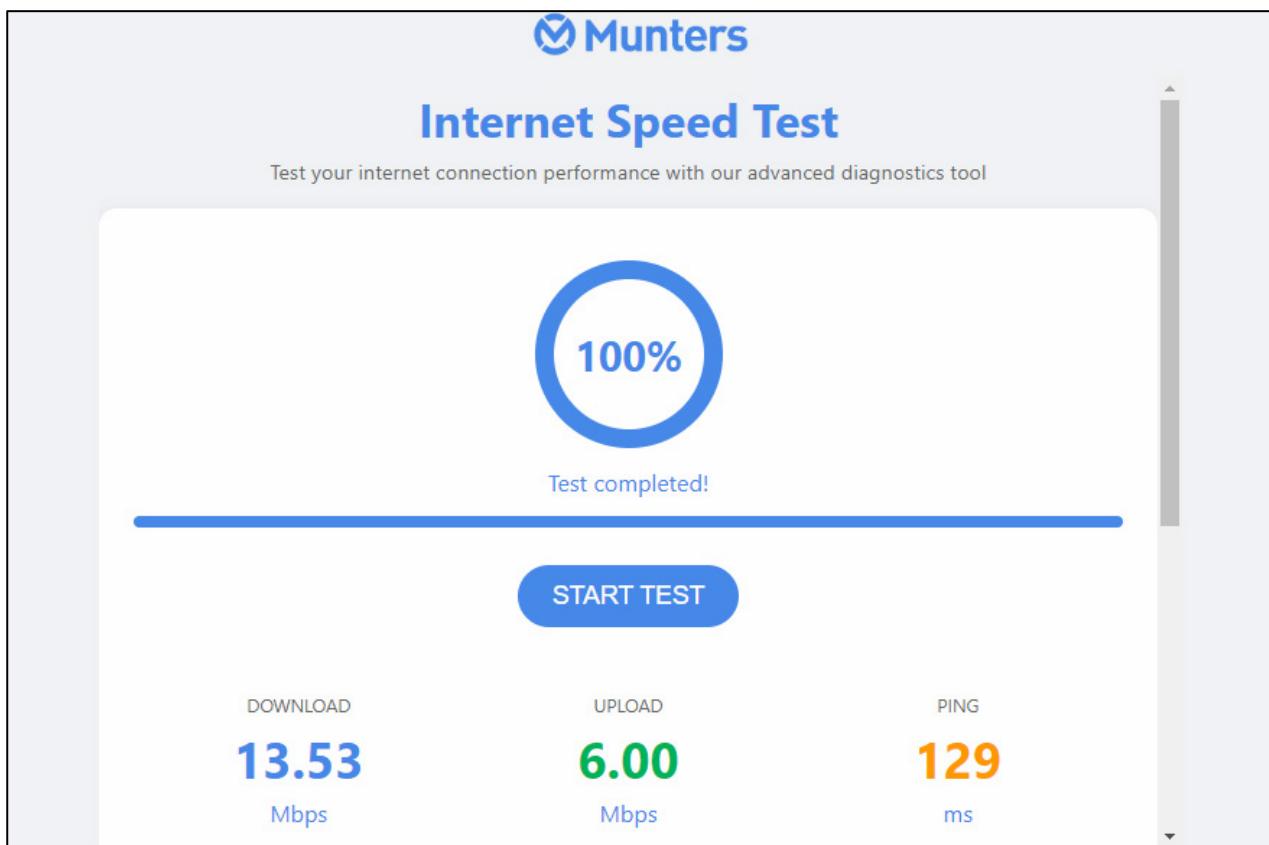


Figure 77: Speed Test (Results, example)

CAUTION A 5 Mbps upload/download speed (minimum) is required to ensure secure connectivity between the CommBox and controllers.

8 Controller Functionality

CommBox Version 4.7.2.X enables controllers additional functionality that is not found when using the keyboard or touch screen.

- Modal
- Bird Inventory
- Growth Day Send to All

8.1 Modal

CommBox Version 4.7.2.10 supports Modal functionality in Platinum Pro/Platinum Touch/Rotem Pro/Rotem One controllers. Modal enables defining the differential temperature in Levels of Ventilation in a range of ventilation levels. The differential level triggers the next level of ventilation according to difference from target temperature (time delays remain in effect).

NOTE Modal only is available when a user is connected to a controller via a CommBox or via the web. It is not available when managing the controller locally.

⌚ In Platinum System > Relays or System > Analog Output, define exhaust fans and tunnel fans as required.

1. Go to System > Levels of Ventilation.

Levels Of Ventilation								
Exhaust & Tunnel Fans		Vent & Curtain		Variable Speed Fans		Stir & Variable Stir Fans		
Level	On (Sec.)	Air Capacity	Diff.	Tunnel Level	Exhaust		Tunnel	
					E1	E2	T1	T2
1	0	0	0.0		X	X	X	X
2	0	0	0.0		X	X	X	X
3	0	0	0.0		X	X	X	X
4	0	0	0.0		X	X	X	X
5	0	0	0.0		X	X	X	X
6	0	0	0.0		X	X	X	X

Figure 78: Level of Ventilation Screen

2. Define the On time and the exhaust/tunnels as required (refer to the controller manuals for details). Note: Air Capacity is read-only.

Levels Of Ventilation								
Exhaust & Tunnel Fans		Vent & Curtain		Variable Speed Fans		Stir & Variable Stir Fans		
Level	On (Sec.)	Air Capacity	Diff.	Tunnel Level	Exhaust	Tunnel		
					E1	E2	T1	T2
1	30	2,039	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	45	3,058	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	60	4,078	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	30	6,626	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	45	9,939	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	60	13,253	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	0	0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 79: Level of Ventilation Screen (2)

3. Click the edit icon



. The Set Level of Ventilation screen appears.

Set Level of Ventilation

From Level
1

To Level
1

Change
0

Set Changes **Cancel**

Figure 80: Set Level of Ventilation Pop-up

4. Define the levels at which the differential is changed and the differential. Note: The first several levels normally have differential temperatures set to 0.

Set Level of Ventilation

From Level
4

To Level
6

Change
2

Set Changes **Cancel**

Figure 81: Set Ventilation Screen Defined (example)

The changes appear on the Levels of Ventilation screen.

Levels Of Ventilation

Exhaust & Tunnel Fans Vent & Curtain Variable Speed Fans Stir & Variable Stir Fans

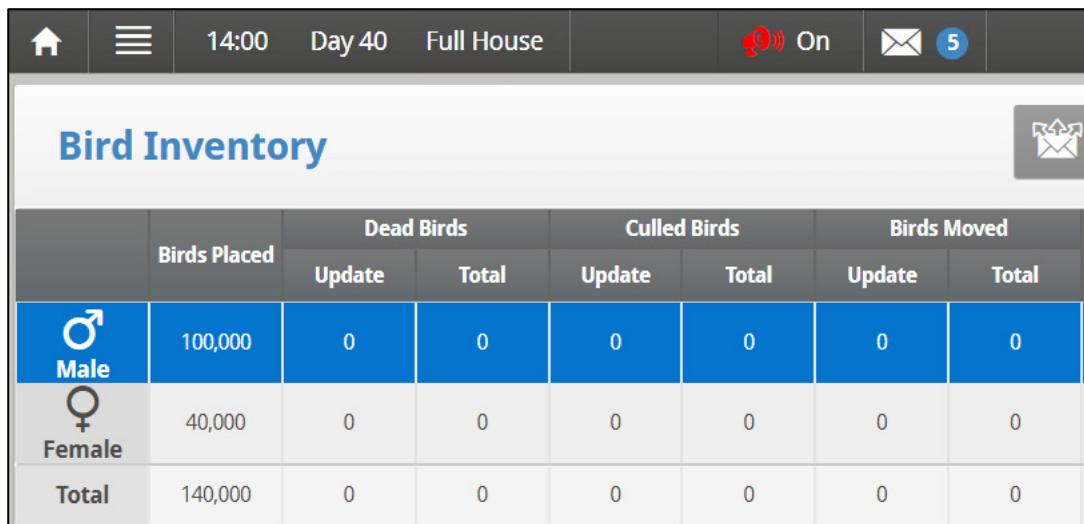
Level	On (Sec.)	Air Capacity	Diff.	Tunnel Level	Exhaust		Tunnel	
					E1	E2	T1	T2
1	30	2,039	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	45	3,058	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	60	4,078	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	30	6,626	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	45	9,939	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	60	13,253	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	0	0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 82: Levels of Ventilation Screen (3)

At levels 4, 5, and 6 ventilation goes to the next level when the temperature is 2 degrees about the tunnel or target temperature (depending on if the level is below or above the tunnel level. Refer to the Platinum manuals for details).

8.2 Bird Inventory

When defining the bird inventory via CommBox, Platinum Pro/Rotem One support up to 140,000 birds (the controllers support up to 99,999 birds when defining this function using the keyboard).



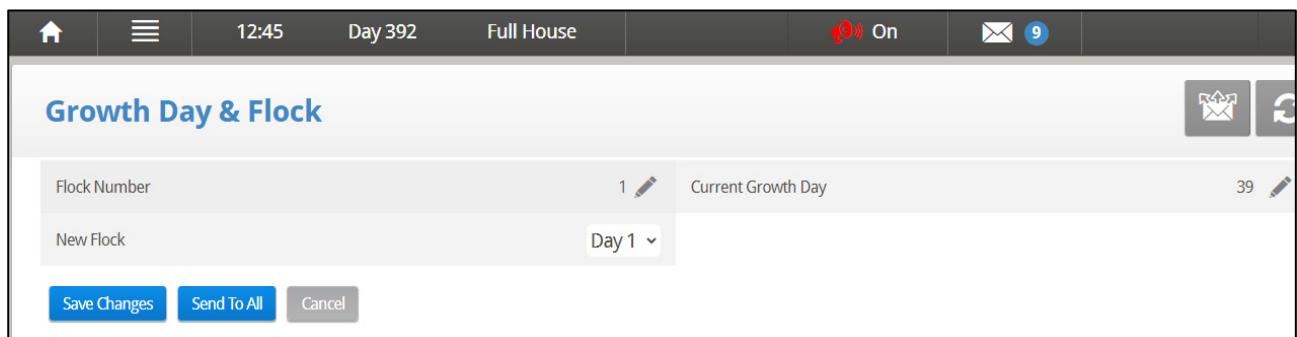
	Birds Placed	Dead Birds		Culled Birds		Birds Moved	
		Update	Total	Update	Total	Update	Total
♂ Male	100,000	0	0	0	0	0	0
♀ Female	40,000	0	0	0	0	0	0
Total	140,000	0	0	0	0	0	0

Figure 83: Bird Inventory Screen

8.3 Growth Day Send to All

Version 4.7.2.X enables changing the growth day in selected houses.

1. Go to Management > Growth Day & Flock.



Flock Number	1 <input type="button" value=""/>	Current Growth Day	39 <input type="button" value=""/>
New Flock	Day 1 <input type="button" value=""/>		
<input type="button" value="Save Changes"/>	<input type="button" value="Send To All"/>	<input type="button" value="Cancel"/>	

Figure 84: Growth Day & Flock Screen

2. Edit as required and click Send to All.

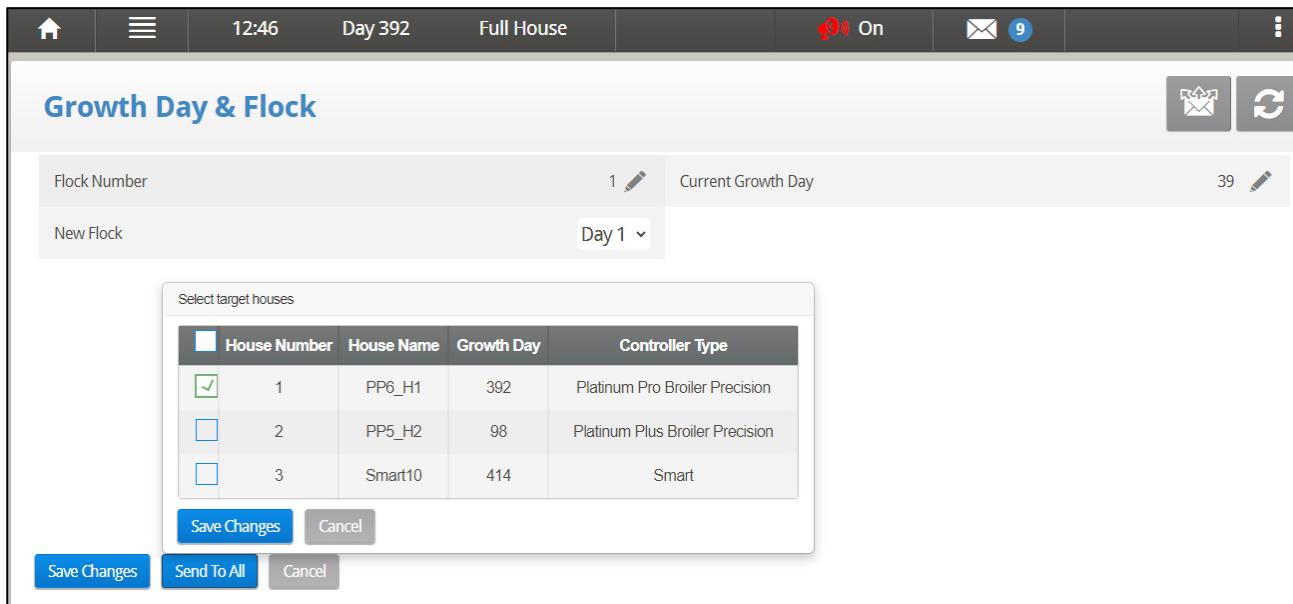


Figure 85: Send to All Function

3. Select the houses in which the change applies and click Save Changes.

9 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.rotenetweb.com.

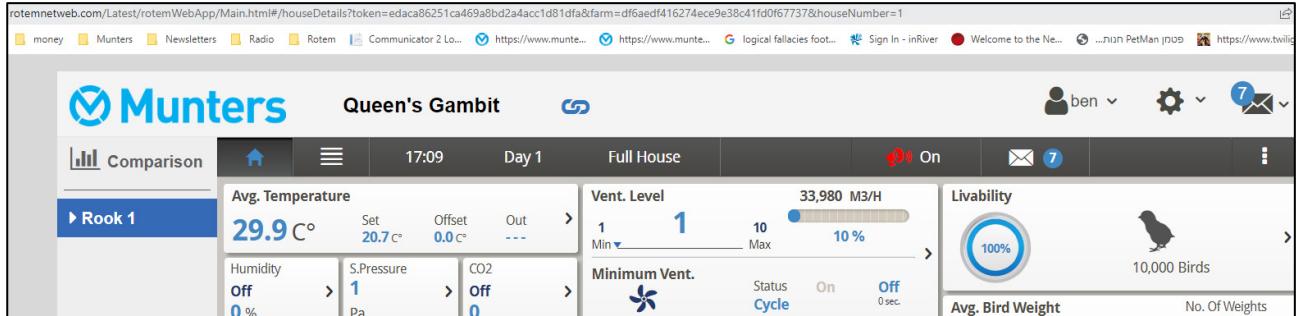
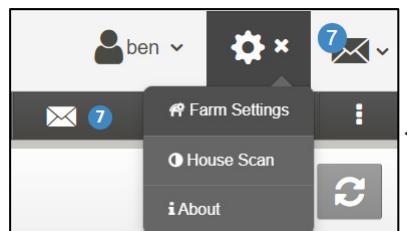


Figure 86: RotemNet Web Homepage

2. Under the settings icon, click Farm Settings.



3. Click the Activity Log tab.

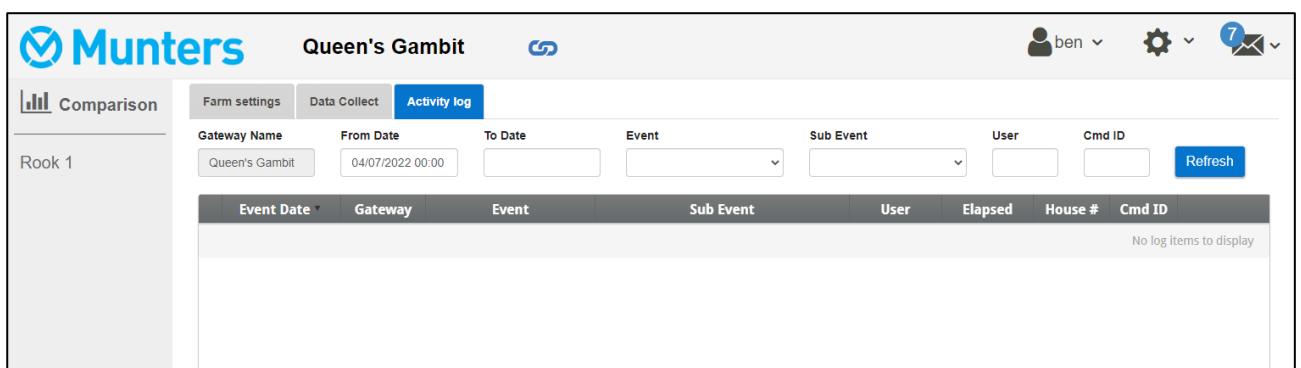


Figure 87: Activity Log Screen

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. See the list in the following table.

In the following example Event is defined as **Save Farm Data**. User **ben** made the following changes:

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Farm settings</th><th style="width: 10%;">Data Collect</th><th style="width: 10%; background-color: #0070C0; color: white; text-align: center;">Activity log</th><th colspan="6"></th></tr> <tr> <th>Gateway Name</th><th>From Date</th><th>To Date</th><th>Event</th><th>Sub Event</th><th>User</th><th>Cmd ID</th><th colspan="2"></th></tr> <tr> <td>Queen's Gambit</td><td>04/07/2022 00:00</td><td></td><td>Save Farm Data</td><td></td><td></td><td></td><td colspan="2"></td></tr> </table>									Farm settings	Data Collect	Activity log							Gateway Name	From Date	To Date	Event	Sub Event	User	Cmd ID			Queen's Gambit	04/07/2022 00:00		Save Farm Data					
Farm settings	Data Collect	Activity log																																	
Gateway Name	From Date	To Date	Event	Sub Event	User	Cmd ID																													
Queen's Gambit	04/07/2022 00:00		Save Farm Data																																
Event Date	Gateway	Event	Sub Event	User	Elapsed	House #	Cmd ID																												
04/07/22 16:09:59	Queen's Gambit	Save Farm Data	Web Request Ended	ben	263 ms	1	85	show info																											
04/07/22 16:09:52	Queen's Gambit	Save Farm Data	Web Request Ended	ben	250 ms	1	85	show info																											
04/07/22 16:09:32	Queen's Gambit	Save Farm Data	Web Request Ended	ben	250 ms	1	85	show info																											
04/07/22 16:08:01	Queen's Gambit	Save Farm Data	Web Request Ended	ben	2.823 sec	1	66	show info																											
04/07/22 16:07:35	Queen's Gambit	Save Farm Data	Web Request Ended	ben	1.776 sec	1	21	show info																											
04/07/22 16:06:29	Queen's Gambit	Save Farm Data	Web Request Ended	ben	1.263 sec	1	27	show info																											
04/07/22 15:43:37	Queen's Gambit	Save Farm Data	Web Request Ended	ben	3.366 sec	1	11	show info																											

Figure 88: Activity Results (example)

- 85: History feed
- 66: Fan air capacity
- 21: Event DB Property
- 27: Temp & Timer Setting
- 11: VOID (Reserved)

CMD IDs and Description		
1: Version Old	3: VOID	4: Signature
7: Active Alarm	9: VOID	11: VOID
12: Bird Inventory - READ	13: VOID	14: VOID
15: VOID	17: CO2 Treatment STD	18: VOID
19: Dosing Pump	20: PCI	21: Event DB Property

CMD IDs and Description		
23: VOID	24: Ammonia Treatment STD	25: Relay Current
27: Temp & Timer Setting	28: STD	29: VOID
30: Stir Fan Level	31: VOID	32: VOID
33: VOID	34: VOID	35: VOID
36: VOID	37: VOID	38: Light Feed
39: Water and Feed	40: Extra System	41: Static Pressure Standard
42: Static Pressure Precision	43: Control Mode	44: Bird Curve
45: History Setup	46: Levels Of Ventilation	47: Feed Calibration
48: Water Calibration	49: Setup	50: Relays Layout
51: Analog Sensors	52: Digital Sensors	53: Temp Definition
54: Curtains Setup	55: Vent And Curtain Level	56: Sys CO2 Treatment STD
57: System Parameters	58: Bird Scale Setting Bre As Bro	59: Alarm Settings
60: Sys Ammonia Treatment STD 9	61: Stir Fan Program	62: VOID
63: VOID	64: Analog Output	65: Temperature Reminder
66: Fan Air Capacity	67: VOID	68: Speed Fan Levels
69: Feed Bin Settings	70: Data Plug	72: Relays Test
73: VOID	74: Daily DB Property	75: Cage
76: EggRoomSetPoint	77: VOID	78: VOID
81: Sys Nest	83: History Temperature	84: History Humidity
85: History Feed	87: History Alarms	88: SSC Plug Play
90: Sys_ControlMode	92: Week Of Flock	93: Time
94: VOID	96: SRP HUB HW	97: Feed Inventory
98: Last 100 Weights	99: Set THI	101: Temp Curve
102: Set Rad Heater	103: Vent Level Set Point	104: Set stir fan

CMD IDs and Description		
105: Static Pressure Set Point	106: Set Cool Pad	107: Set Point Foggers
108: Set Humidity Treatment	109: Set Soft Min/Max Level	110: VentAndCurtainLevels Set Point
111: Light Set parameters	112: Active Silo	113: Emergency Set Point
114: VOID	115: Sys Minimum Vent	116: Set Relay Current
117: Bird Inventory - WRITE	118: VOID	119: Alarm DB Property
120: RDT Table	122: Test Analog Input	123: Test Digital
124: VOID	125: RDT Set Table	126: SSC HD
127: Het Key - Temperature Sensors	128: FeedQuantityUpdate	130: VOID
131: VOID	132: VOID	133: VOID
134: CO2 Set Point	135: Sys Water and Feed	137: VOID
138: VOID	139: VOID	140: VOID
141: History System Events	142: Set Bird Scale Setting BreAsBro	143: WorkRoomControl
144: EggRoom	145: VOID	146: CO2 Treatment
147: Feed Conversion	148: SRP Hub Plug And Play	149: Light No Feed
150: History View DB Property	151: New History View	152: Set Dosing Pump
153: Levels Of Ventilation - Read Only	154: Min/Max Level By Weight	155: Set Point of Min/Max Level By Weight
156: Set Point Scale Layout	157: MinVent & Ramping Set point	158: Fogger Set Point (STD)
159: Fogger STD	160: Variable Speed Fans Setting	162: STD Curtain Set up
163: set.Std_V_Speed_Fans	164: Stir Fan Set program	165: Water On Demand
166: Sys variable heat	194: Feed Scale Program	206: Light No Feed
207: Light Feed	208: Water And Feed	215: Auger Layout

CMD IDs and Description		
216: Water And Feed By Quantity from 5.05	217: Water And Feed By Quantity	218: Set Curve
222: Set Natural Program	224: Natural Program	225: Ammonia Treatment
228: Service Wind Direction	231: Ammonia Treatment SetPoint	235: Feed Line Calibration
236: Set Floor Heat	237: Light Dimmer Comm	238: Water and Feed SetPoint
239: Set Water On Demand	243: Minimum Vent Timer STD	244: Timer Settings STD
247: Temp And Timer Settings STD	248: Sys Humidity TreatmentSTD	249: Sys Curtain Calibration
255: Hot Key Natural	256: Hot Key - Lights	257: Munters Drive
258: Water Meters	260: Web OverView	261: Dash Board
262: Switches Change Confirm	263: Switch Status Array	264: Status Bar
265: Temp Reminder	266: System Security	267: Signatures
270: ReciveOnce	271: EggRoomHistory	272: HK EggRoom
273: HumidityFactorComm	274: WaterAndFeedBreeder	276: History Egg Belt
277: Fast Main Screen	278: Hot Key - Water & Feed	279: History Egg Counter
280: HK Egg Counter	284: History Ammonia	285: Hot Key - Analog Output
286: SetPoint Feed Scale	287: HK Feed Scale	288: Scale Clibration
290: Scale Layout	291: Emergency Set Comm	293: Hot Key - Scales
294: Set Analog Output	295: Feed Scale Program	296: Hot Key Feed Bin
298: Feed Scale Setting	299: HK_FeedScale	300: Hot Key - Temperature & Humidity
301: Hot Key - Curve	302: Water and Feed Set Mem23	303: Hotkey Zoon Inlet
304: Hot Key - Infra Red	305: VOID	306: Nest table

CMD IDs and Description		
307: Hot Key - Curtains	308: Bird Weight Bre As Bro	309: Scale History Bre
311: Bird Weight Bre Auto	312: Web Weight	313: Control Level By Weight Hot Key
314: Scale Test	315: FDQ Tab 1	318: HK Pump Dosing
319: TableWarning	320: Heather Duration	321: Power Consumption
322: History Heaters	323: History Mortality	324: History Water
325: SSC Power Consumption	326: SSC HK	327: FDQ Tab 2
328: History Variable Heaters	329: Hot Key Cool Ramping	330: Dosing Pump
331: Dosing Pump History	332: History Table Of Events	333: History Radiant Heaters
334: Power Meter HK	335: Munters Drive HK	336: Scale History
337: CO2 History	338: SRP Hub	

10 Appendix B: Data Collection

10.1 Centralized Collection

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

- Only the group owner or administrator can define the General Settings. The following tab does not appear on any other user's screen.
- 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.
- The General Settings tab is viewable via the web only. It is not viewable from a local connection.

1. In the settings icon, select Farm Settings.

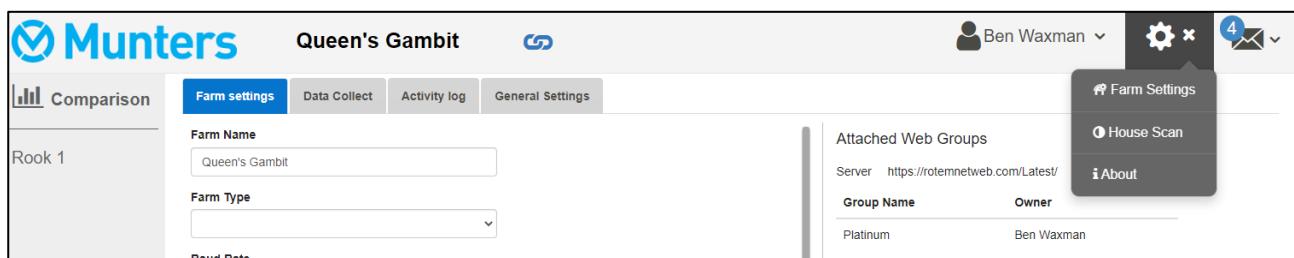


Figure 89: Farm Settings Drop Down

2. Go to Farm Settings > General Settings.

A screenshot of the 'General Settings' screen. At the top, there is a navigation bar with tabs: 'Farm settings', 'Data Collect', 'Activity log', and 'General Settings', with 'General Settings' being the active tab. The main area is titled 'General Settings' and contains several input fields:

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

At the bottom of the screen, there is a checkbox labeled 'Accept Data Provider License' with a link to 'License Agreement' and a 'Save' button.

Figure 90: General Settings Screen

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.

4. Click Save.

Farm settings Push Notifications Data Collect Activity log **General Settings**

General Settings

Farm Code
1234

Integrator Name
Other

Dealer
Other

Data Provider
Other

Accept Data Provider License [License Agreement](#)

Save

Figure 91: General Settings – Completed (Example)

NOTE: If you click Save without marking the License radio box, the following message appears:

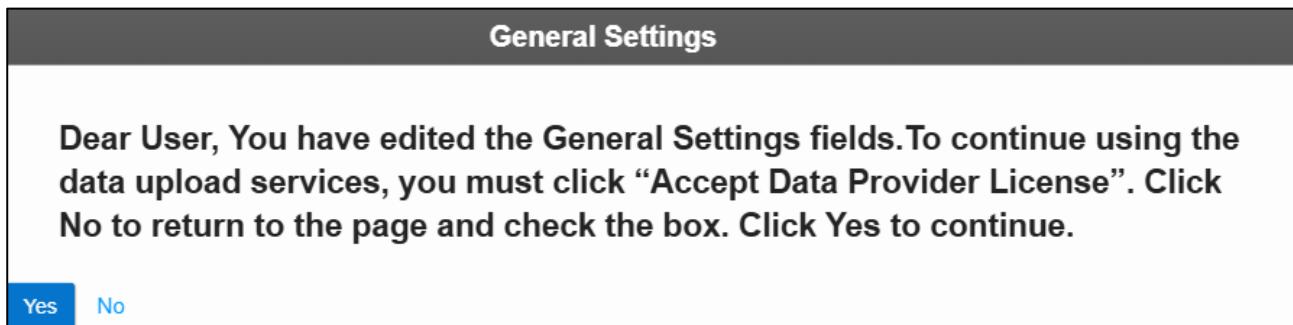


Figure 92: License Warning

- Click No to return to the page and accept the license.
- Click Yes if you do not wish to use the data upload services.

5. Click the Data Collect tab. Refer to the following section.

10.2 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.*

The screenshot shows the 'Data Collect' tab selected in a top navigation bar. The main content area is divided into several sections:

- Data Upload Settings:** Contains fields for 'Farm name for collect' (set to 'Farm'), 'License key' (set to 'a65212f8-56a4-4bab-85d6-48b22e54cf2'), 'Expired date' (set to '30/05/2023'), and a checkbox for 'Allow to change settings'. It also includes tabs for 'FTP' (selected) and 'SFTP'.
- FTP Remote Server Details:** Fields for 'Host Address', 'Port Number' (set to '0'), 'Target Folder', 'User Name', and 'Password'.
- Collect Preferences:**
 - Auto Collect:** Includes checkboxes for 'Alarm History' and 'VFT', and a checkbox for 'Collect Alarms every 1 minute'. It also has sections for 'Select Output File Formats' (checkboxes for 'xml' and 'MTech') and 'Define The Data Collection Interval' (set to '15 min.').
 - Select Houses:** A section with a checkbox for 'House Number' (checked) and a list item 'House 1'.
- Save:** A blue button at the bottom left.

Figure 93: FTP Definition

- 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.

11Warranty

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 unforeseen 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 CommBox, (for example power supplies, cables, etc.) 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.](#)

