

CommBox

Manual for use and maintenance



CommBox

Internet Access

Ag/MIS/UMGB-2446-03/17 Rev 2.0
P/N: 117597



CommBox

Manual for use and maintenance

Document Revision: 2.0, 08/2023

Software Ver: 4.6.0.35

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

This document is destined for the user of the apparatus: it may not be reproduced in whole or in part, committed to computer memory as a file or delivered to third parties without the prior authorization of the assembler of the system.

Munters reserves the right to effect modifications to the apparatus in accordance with technical and legal developments.

Index

<i>chapter</i>		<i>page</i>
1	INTRODUCTION.....	5
1.1	Disclaimer.....	5
1.2	Introduction	5
1.3	Notes	5
2	INTRODUCTION TO THE COMMBOX.....	6
2.1	Ordering.....	6
2.2	What Comes in the Package.....	6
3	HARDWARE INSTALLATION.....	7
3.1	CommBox Ports.....	7
3.2	Mounting the CommBox.....	8
3.3	Grounding	8
3.4	Connecting the CommBox to the Internet	9
3.5	Connecting the CommBox to a Peripheral Device	9
3.6	Connecting the CommBox to a Communicator.....	10
3.7	Connecting the CommBox to a Controller or RLink.....	10
3.7.1	Controller to Junction Box Connection	11
3.7.2	RLINK One Connection.....	13
3.7.3	CommBox to Junction Box Wiring.....	14
3.7.4	Wiring Topology	16
3.7.5	Termination.....	17
3.7.5.1	Termination Topologies	17
3.7.5.2	Termination Wiring.....	19
4	TECHNICAL DATA.....	20
4.1	CommBox.....	20
4.2	Junction Box.....	21
5	GROUP MANAGEMENT	22
5.1	Activating the Group.....	23
5.2	Log In.....	24
5.3	Attaching the Farm to a Group.....	25
5.3.1	No Existing Groups.....	25
5.3.2	Groups Exist.....	25
5.4	Local Log In.....	26
6	MUNTERSNET WEB.....	27

6.1	MuntersNet Web Functionality.....	28
6.1.1	Farm Settings Tab.....	28
6.1.1.1	Farm Settings.....	28
6.1.1.2	Push Notifications.....	29
6.1.1.3	Local Users.....	30
6.1.1.4	Data Collect.....	30
6.1.1.5	Activity Log.....	30
6.1.1.6	General Settings.....	30
6.1.2	House Scan Tab.....	31
6.1.3	Diagnostics Tab.....	32
6.1.4	About Tab.....	34
6.2	User Settings.....	35
6.3	Software Upgrade.....	36
7	APPENDIX A: GENERATING AN ACTIVITY LOG.....	38
8	APPENDIX B: DATA COLLECTION.....	44
8.1	Centralized Collection.....	44
8.2	Defining the FTP/SFTP server.....	46
9	WARRANTY.....	48

1 Introduction

1.1 Disclaimer

Munters reserves the right to make alterations to specifications, quantities, dimensions etc. for production or other reasons, subsequent to publication. The information contained herein has been prepared by qualified experts within Munters. While we believe the information is accurate and complete, we make no warranty or representation for any particular purposes. The information is offered in good faith and with the understanding that any use of the units or accessories in breach of the directions and warnings in this document is at the sole discretion and risk of the user.

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 2010

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

All rights reserved. No part of this manual may be reproduced in any manner whatsoever without the expressed written permission of Munters. The contents of this manual are subject to change without notice.

2 Introduction to the CommBox

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 Comm-Box-POU-EN-ROT)
- Pigs (P/N: 904-07-00017 Comm-Box-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: 904-99-00036 COMM-BOX -POU- JUNCTION BOX RS232
- RS-485 Network: 904-99-00037 COMM-BOX -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:

- CommBox Ports
- Mounting the CommBox
- Grounding
- Connecting the CommBox to the Internet
- Connecting the CommBox to a Peripheral Device
- Connecting the CommBox to a Communicator
- Connecting the CommBox to a Controller

NOTE No software installation is required.

3.1 CommBox Ports

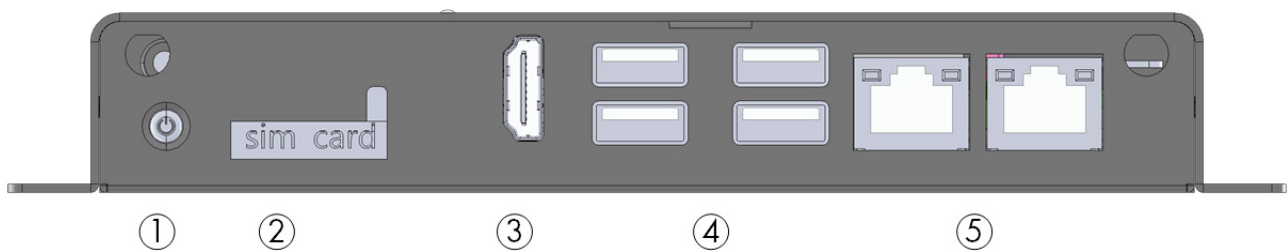


Figure 1: Front View

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

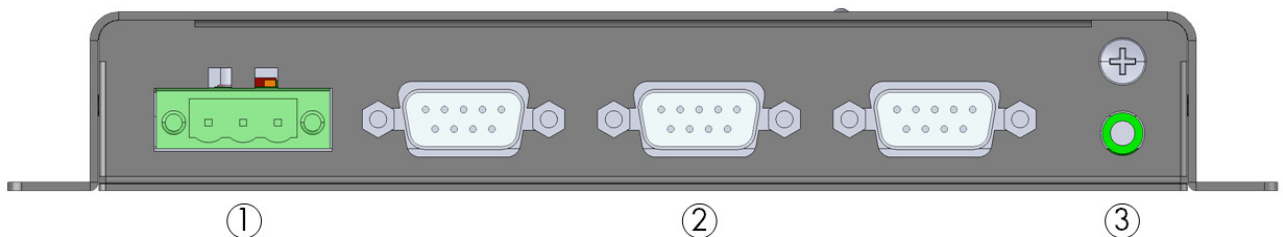
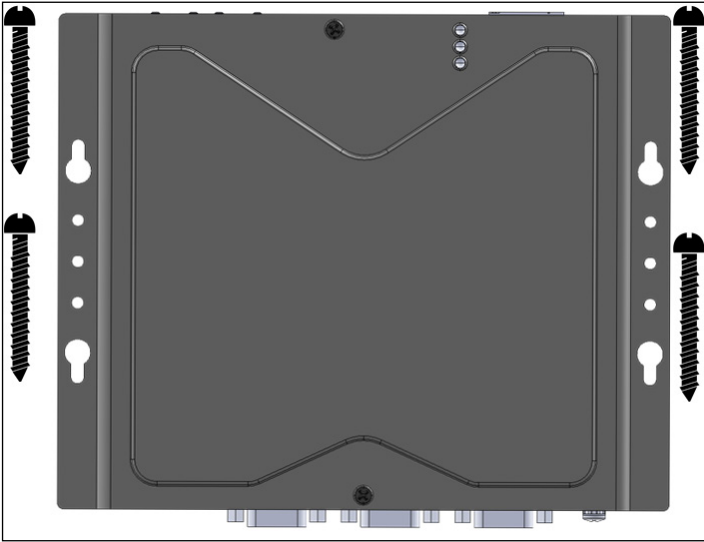


Figure 2: Rear View

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

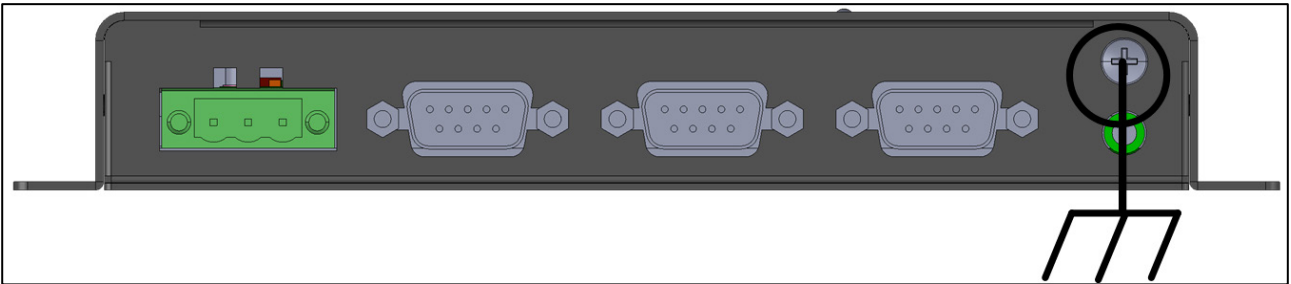
3.2 Mounting the CommBox

- Using the screws provided, mount the unit.



3.3 Grounding

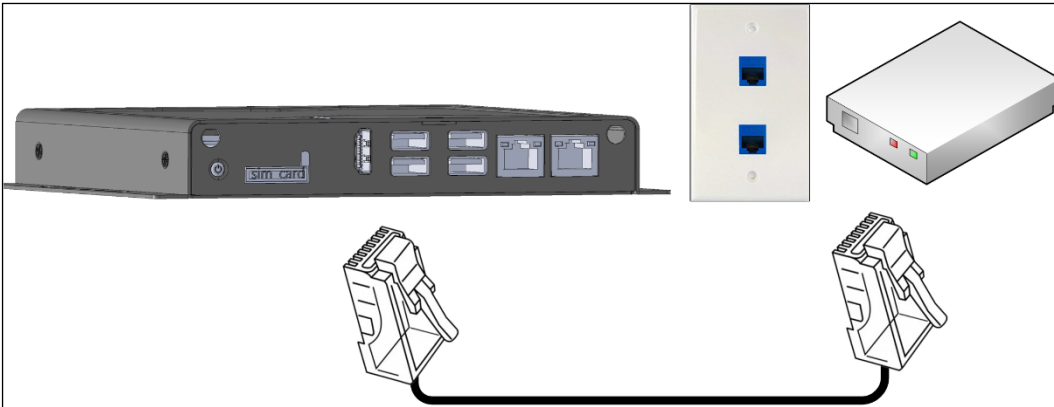
- Connect the ground cable to the dedicated ground terminal.



CAUTION The CommBox must be grounded at all times!

3.4 Connecting the CommBox to the Internet

- Connect the CommBox to your Internet connection/modem.



3.5 Connecting the CommBox to a Peripheral Device

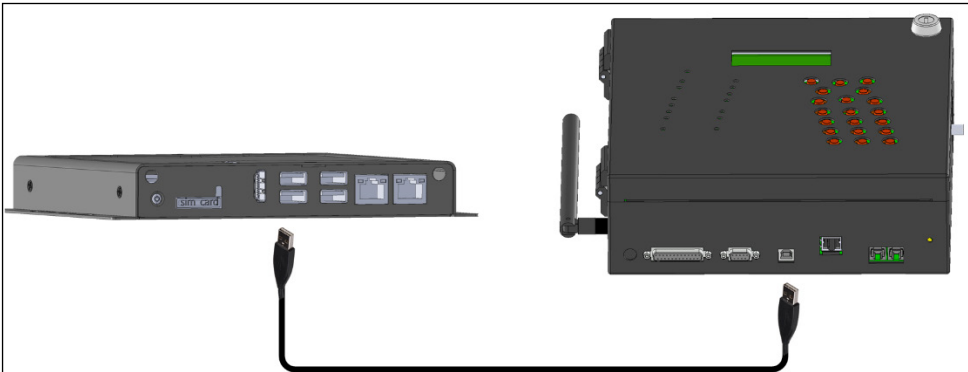
- If required, connect a screen or mouse to the CommBox (via the USB/HDMI ports).

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



3.6 Connecting the CommBox to a Communicator

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



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.

3.7 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 Connection
- RLINK One Connection
- CommBox to Junction Box Wiring
- Wiring Topology
- Termination

WARNING! *Disconnect the power before beginning!*

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

3.7.1 CONTROLLER TO JUNCTION BOX CONNECTION

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

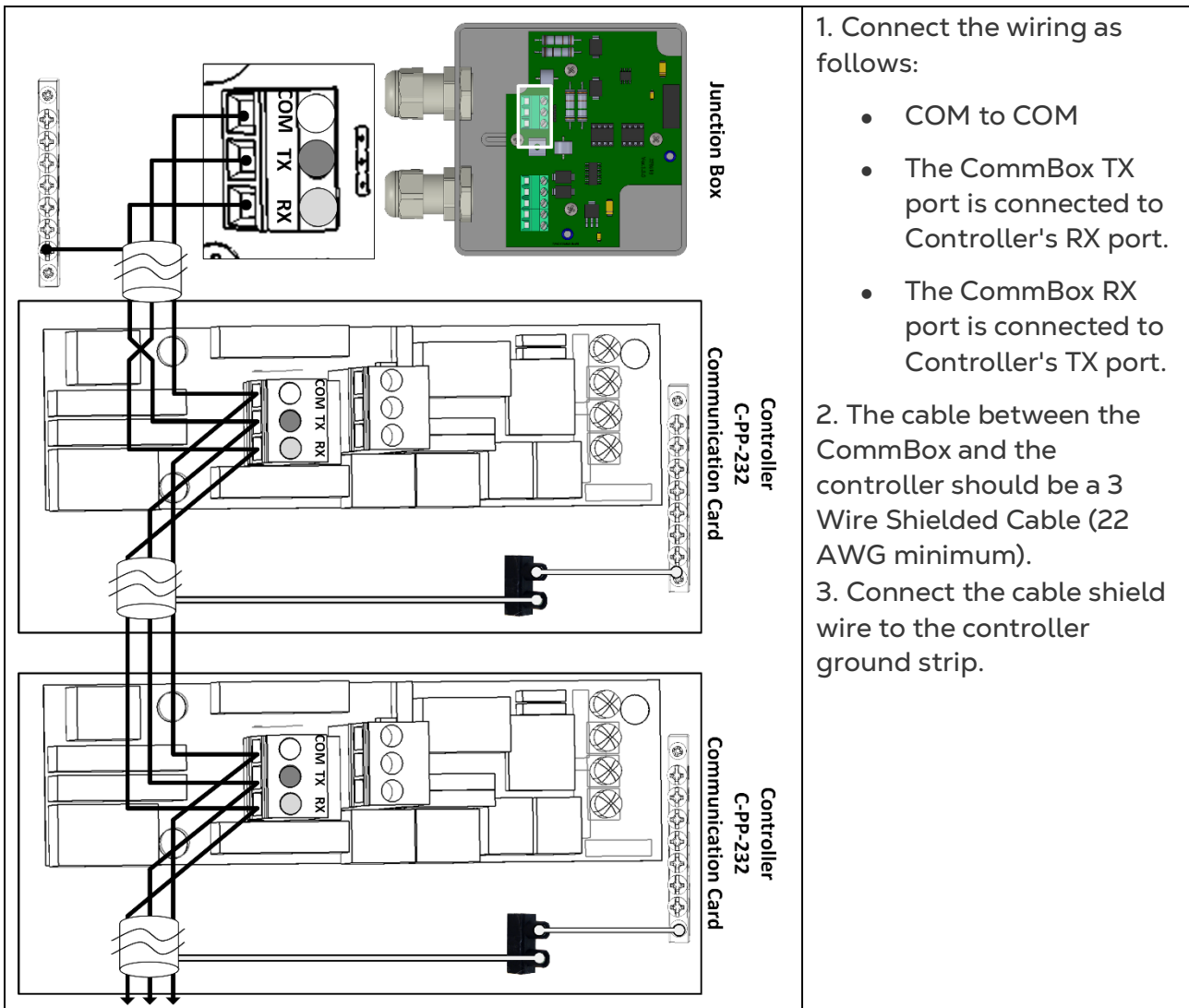
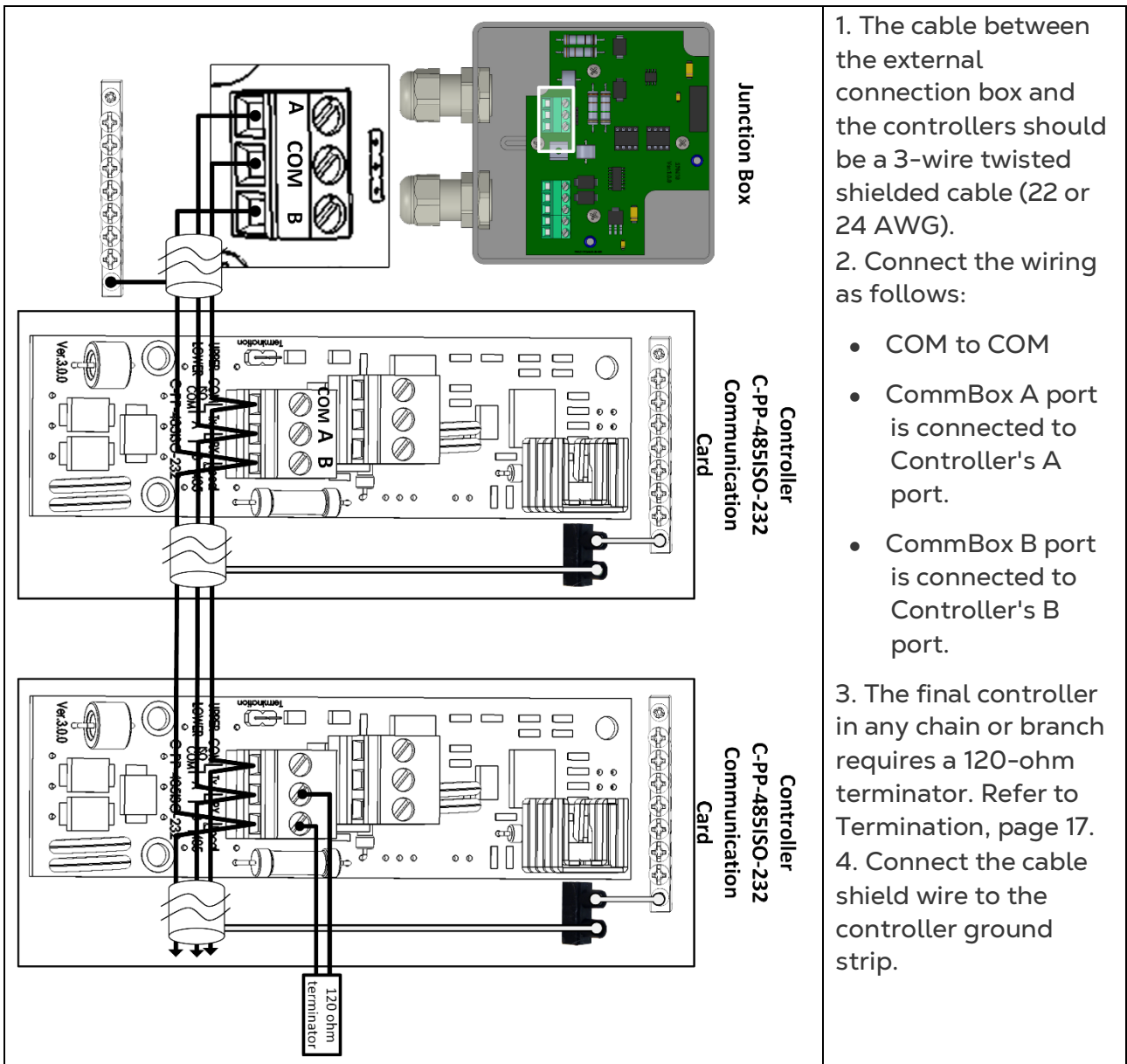


Figure 3: RS-232 Wiring

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 ground loop.



1. The cable between the external connection box and the controllers 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.
 - 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.

Figure 4: 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 ground loop.

3.7.2 RLINK ONE CONNECTION

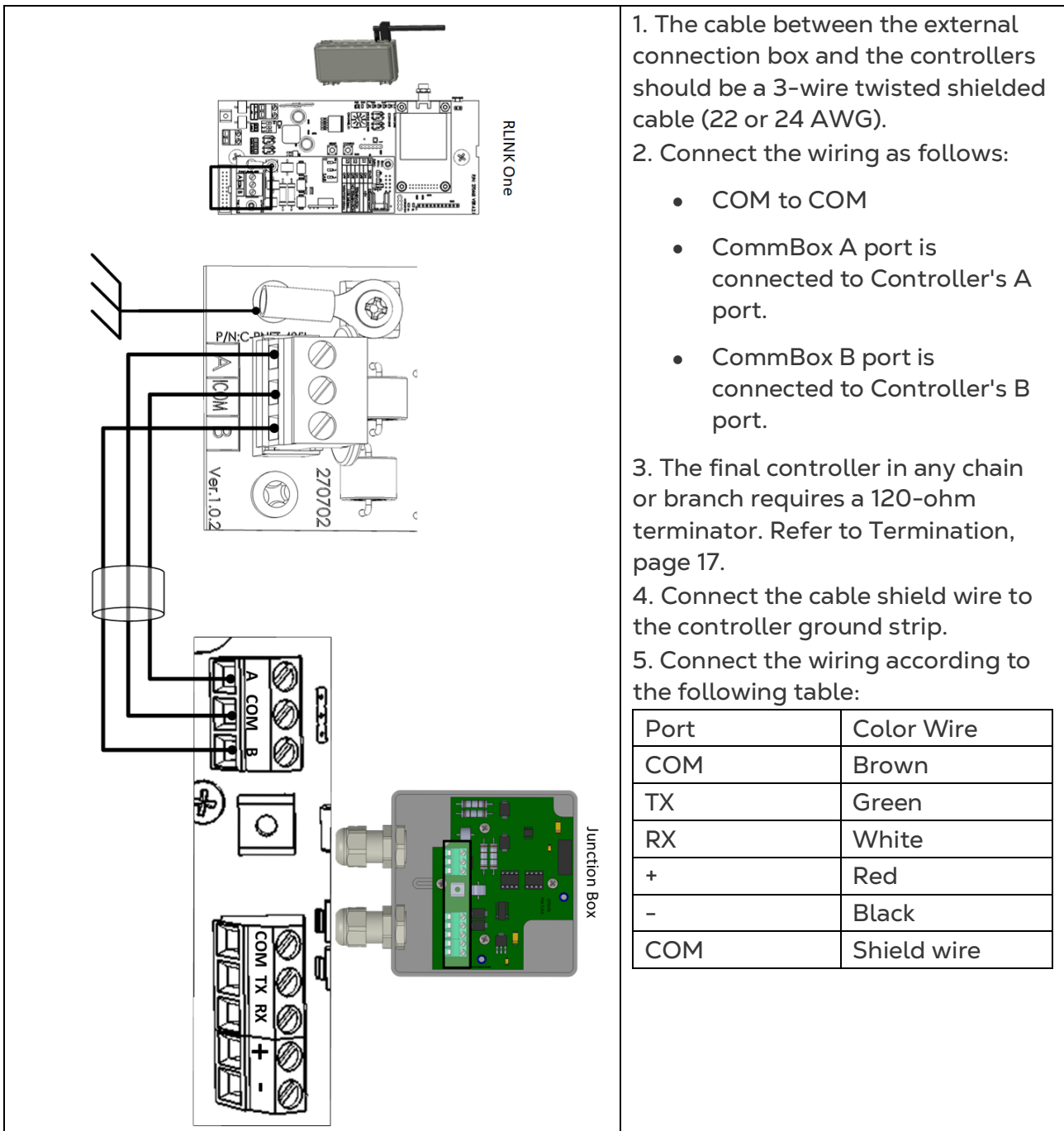


Figure 5: RLink One Wiring

NOTE: RLINK One supports RS-485 infrastructure only.

3.7.3 COMMBOX TO JUNCTION BOX WIRING

The CommBox comes with the power supply wired to the unit. See Figure 6.

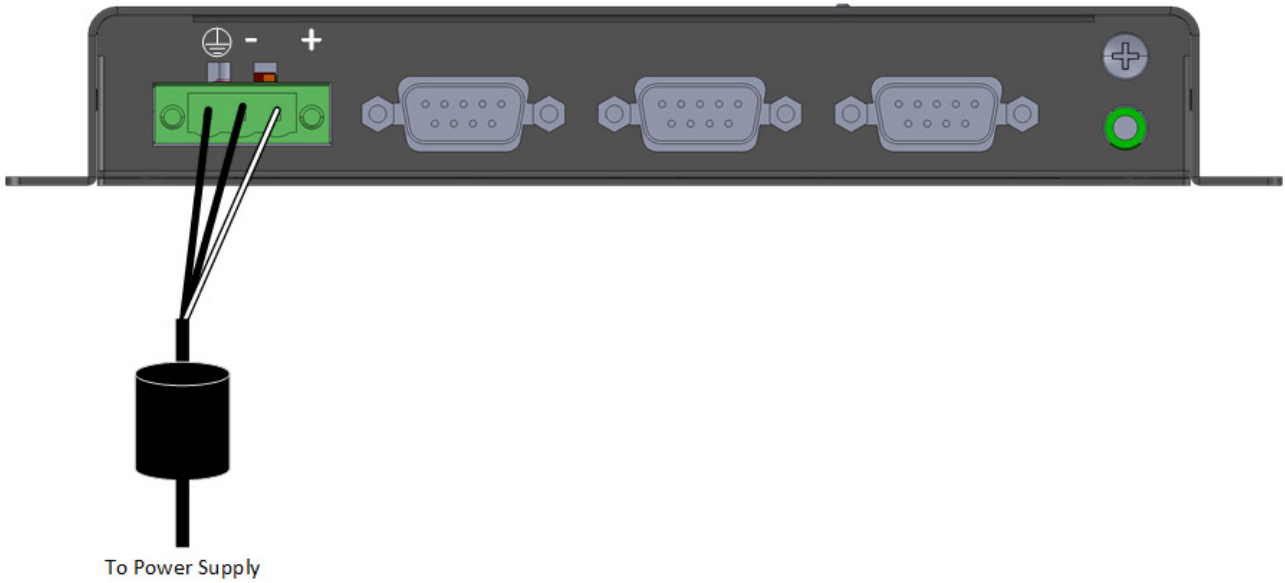


Figure 6: CommBox power supply wiring

1. Insert the Junction Box 9-Pin Connector into COM1 (Figure 7).

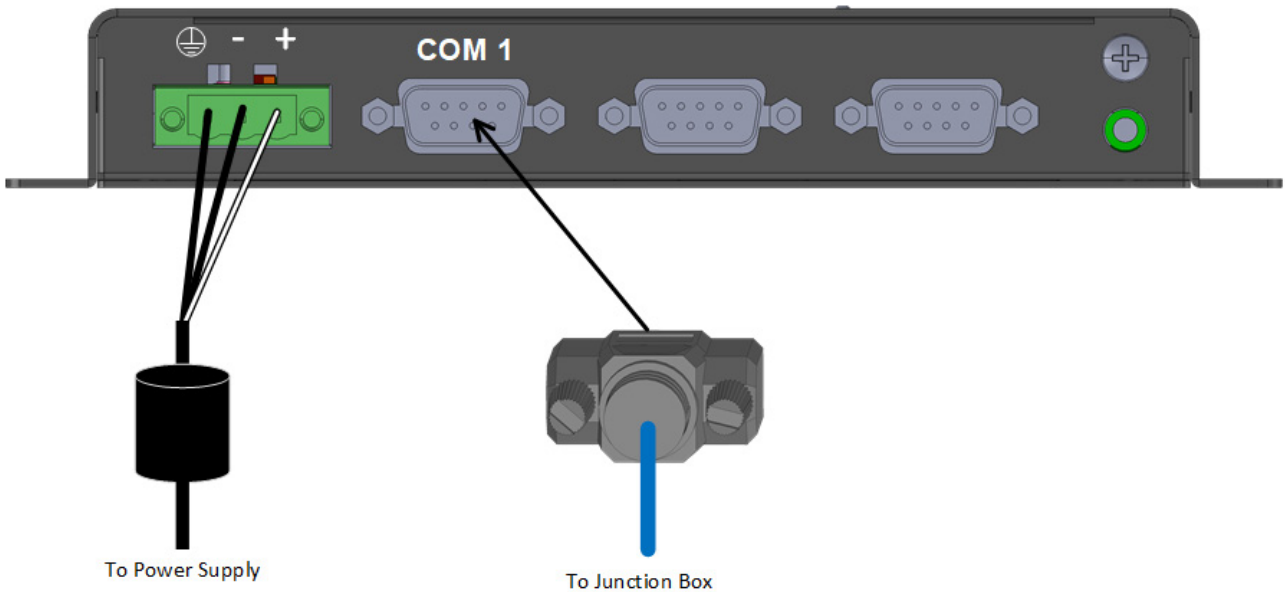


Figure 7: Insert 9 Pin Connector

2. Insert the two wires coming from the Junction Box cable into the ports (Figure 8).

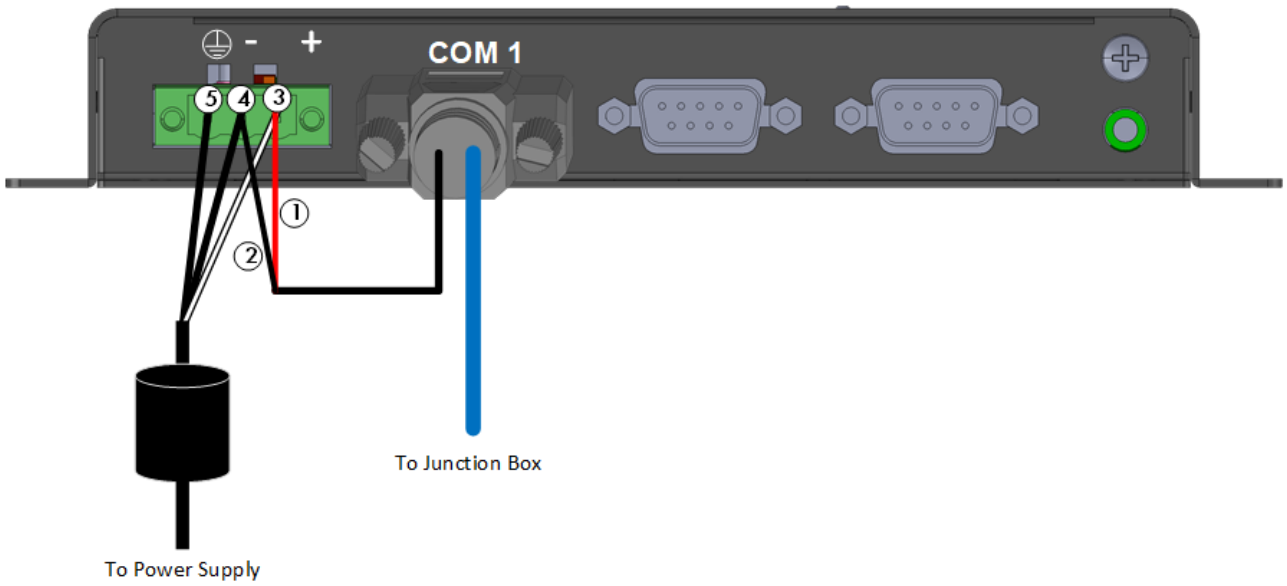


Figure 8: Junction Box Wiring to CommBox

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. In the event that they need to be reattached, place the white cable (#3) in the port as shown in Figure 8. Place both black cables into the ports as shown in Figure 8; either cable can be placed in either port.

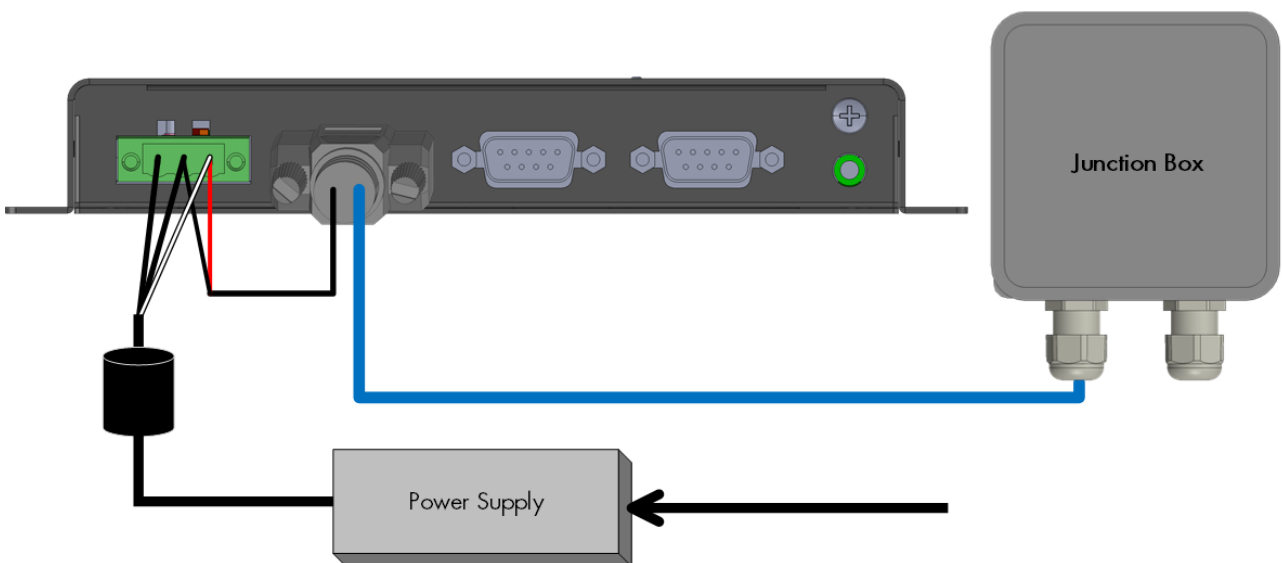


Figure 9: Power Supply – CommBox – Junction Box Setup

3.7.4 WIRING TOPOLOGY

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

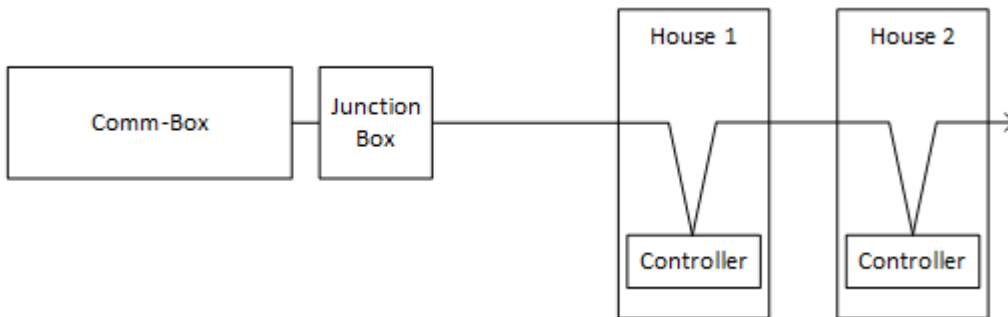


Figure 10: Direct connections

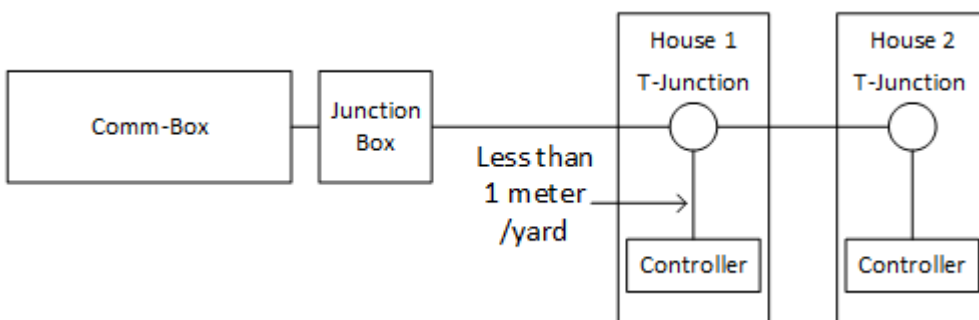


Figure 11: T-Junction (permitted)

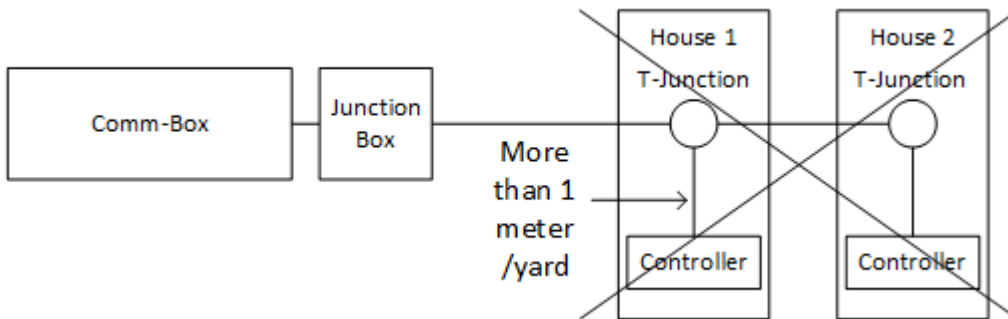


Figure 12: T-Junction (not permitted)

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

3.7.5 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 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 19), the resistor is installed in the controller).

Termination may not be required in shorter installations.

- Termination Topologies
- Termination Wiring

3.7.5.1 Termination Topologies

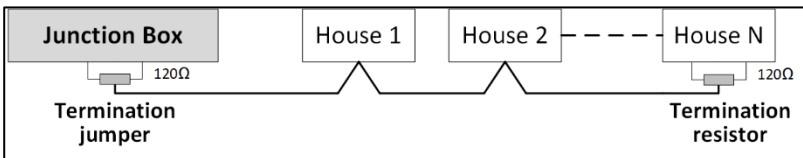


Figure 13: Topology 1: CommBox/House Termination

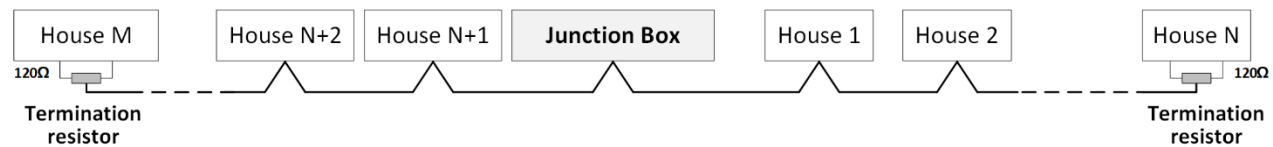


Figure 14: Topology 2: House Termination

The following two topologies require Munters RS-485 Repeaters.

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

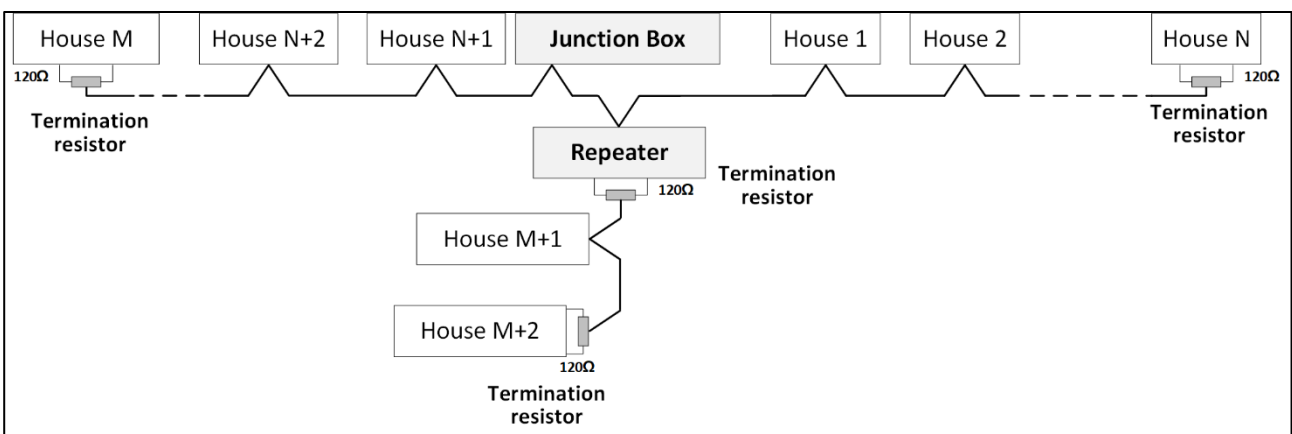


Figure 15: House and Repeater Termination

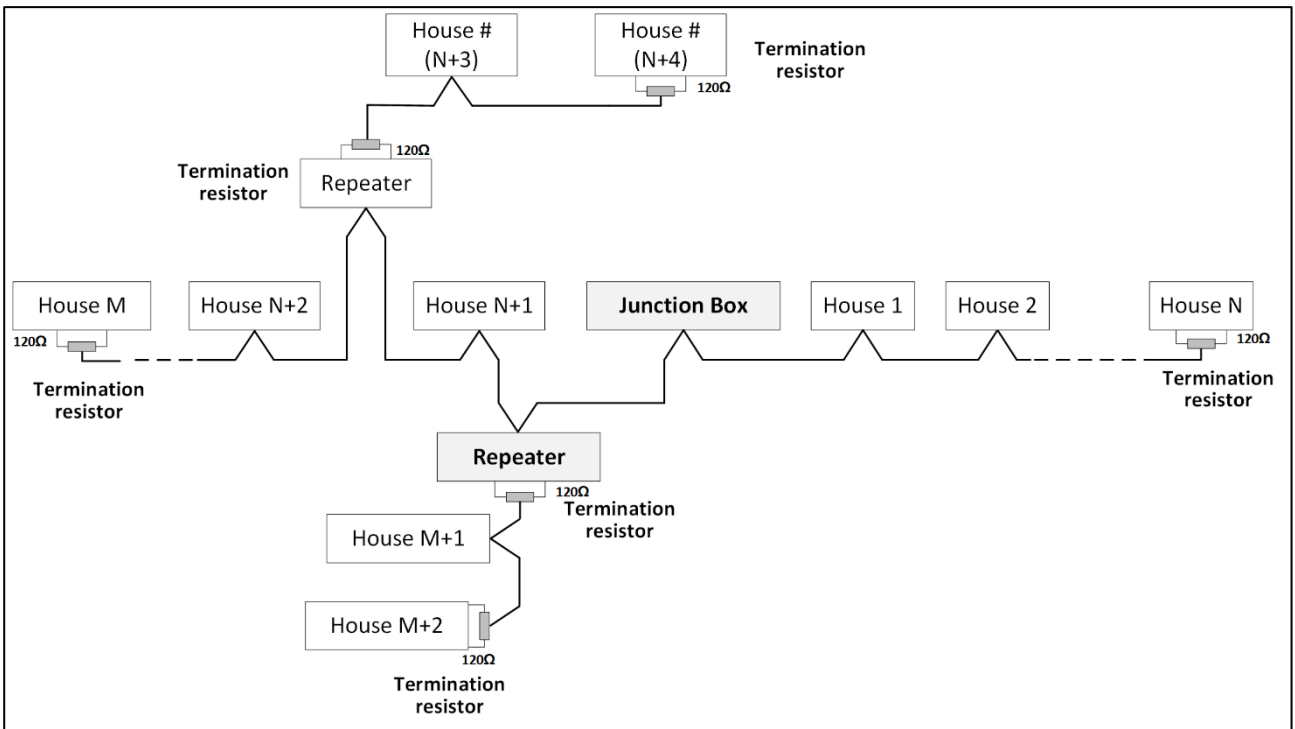


Figure 16: House and Multiple Repeaters Termination

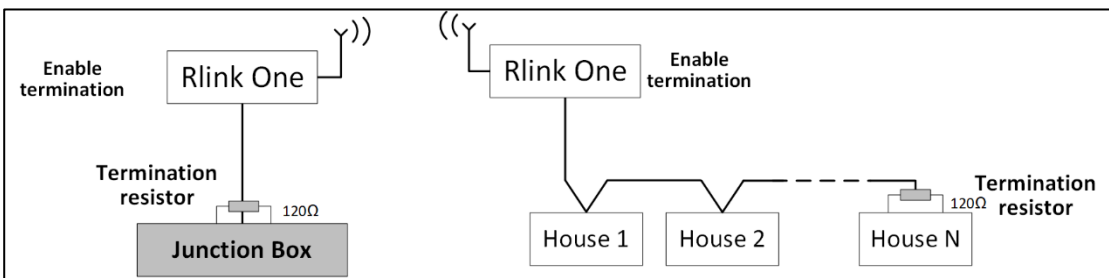


Figure 17: RLink One and House Termination

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

3.7.5.2 Termination Wiring

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

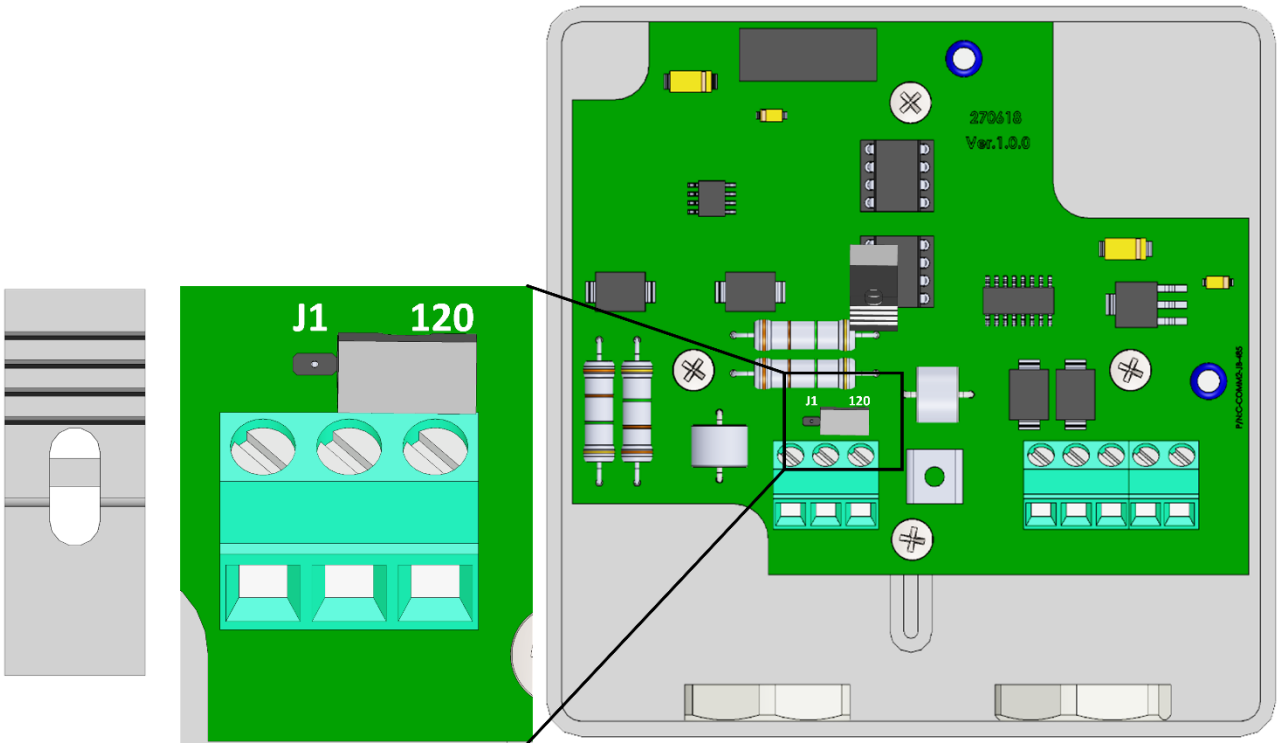


Figure 18: Junction Termination

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

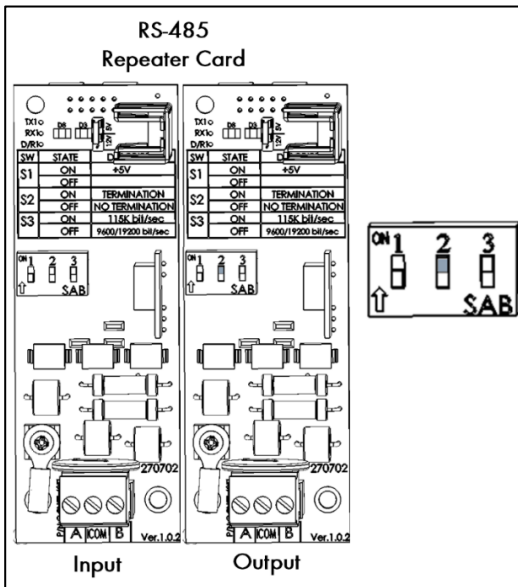





Figure 19: Repeater Termination

4 Technical Data

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: IPXO 	
Housing	
Metal Box Dimensions (W x H x D)	162 x 26 x 150 mm (without wall-mount bracket)
Certification	
  	

4.2 Junction Box

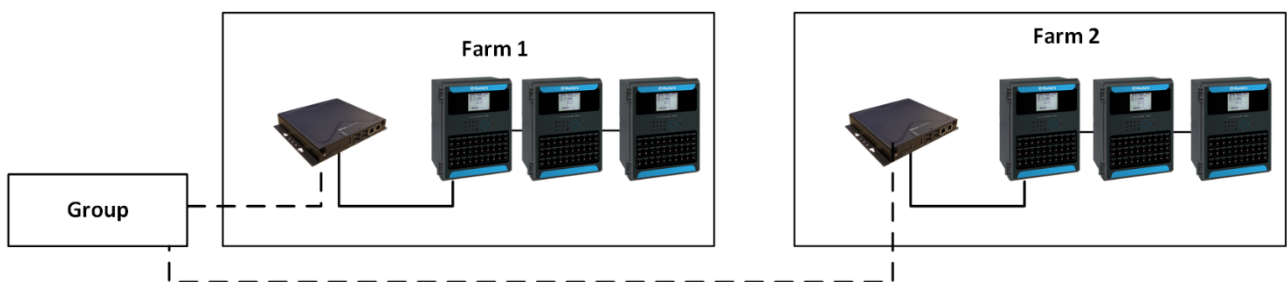
Power Supply	
Junction Box Power Input	24 VDC, 30 mA
CAUTION <i>Unit should be powered by Limited Energy Source per IEC 61010-1 or Limited Power Source per IEC 60950-1 or IEC 62368-1</i>	
Temperature Range	
Operating Temperature Range	0° to +45° C / 32° to 113° F
Storage Temperature Range	-10° to +70° C / 14° to 158° F
Environmental Specifications	
<ul style="list-style-type: none">• Indoor use 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:

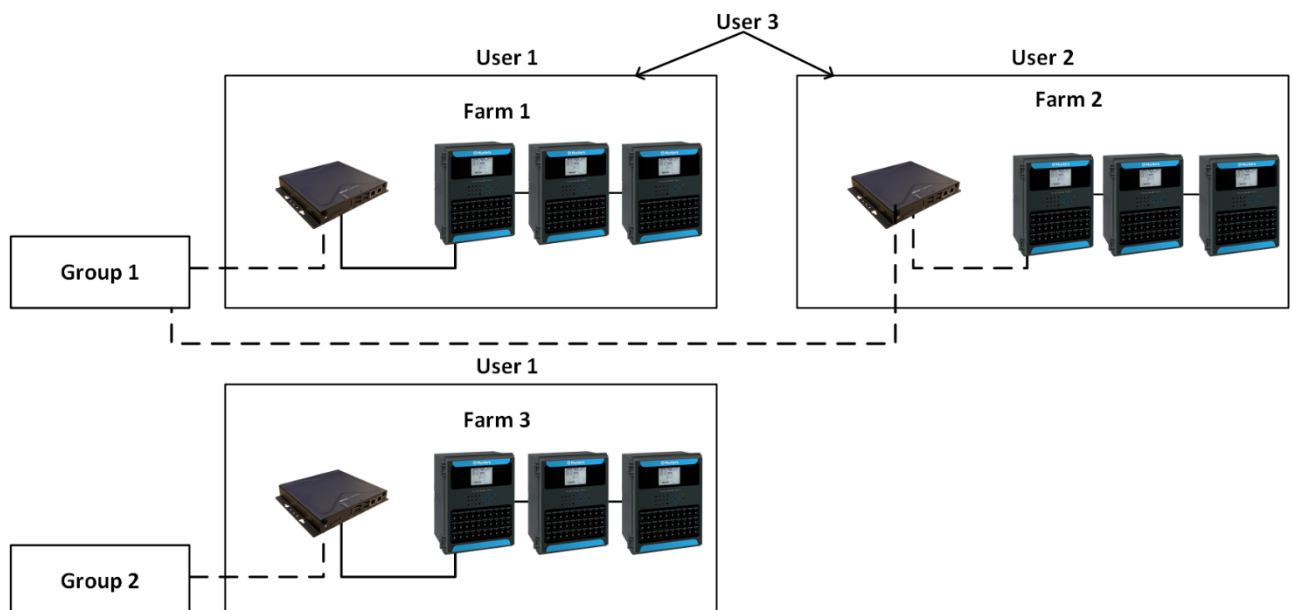
- create a group
- define user rights

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



As an example, an account manager has set 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.



Any combination is possible.

- Activating the Group
- Log In

- Attaching the Farm to a Group
- Local Log In

5.1 Activating the Group

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.

2. Fill in the fields:

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

NOTE *Verify that the CommBox and controller baud rates are the same.*

- Number of Houses: Select the number from the drop-down list.

NOTE *You can edit all of these settings in MuntersNet 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.

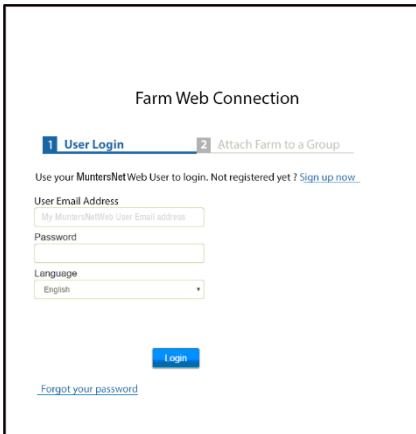
- Click on the Connect to Web to connect your CommBox to the web. This enables remote monitoring and control.
- If you want, you can be reminded to scan at a later time. (Alternatively, click Don't Remind Me Later).

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

As the Group administrator, you can invite other people to join the group as well as define their access rights. This is done in MuntersNet Web itself.

5.2 Log In

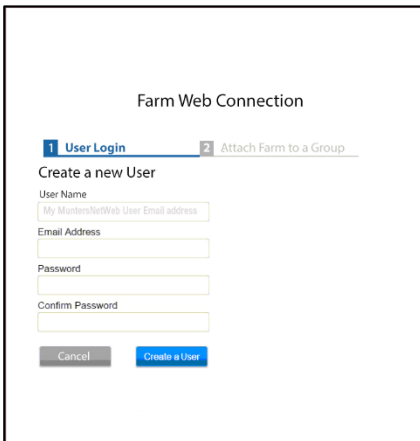
1. If you have a MuntersNet Web user name, log in.



The screenshot shows the 'Farm Web Connection' login page. At the top, there are two steps: '1 User Login' (highlighted) and '2 Attach Farm to a Group'. Below this, it says 'Use your MuntersNetWeb User to login. Not registered yet? [Sign up now](#)'. The form includes fields for 'User Email Address' (with a placeholder 'My MuntersNetWeb User Email address'), 'Password', and a 'Language' dropdown menu set to 'English'. A blue 'Login' button is at the bottom, and a link for '[Forgot your password](#)' is at the bottom left.

Figure 20: Login Screen

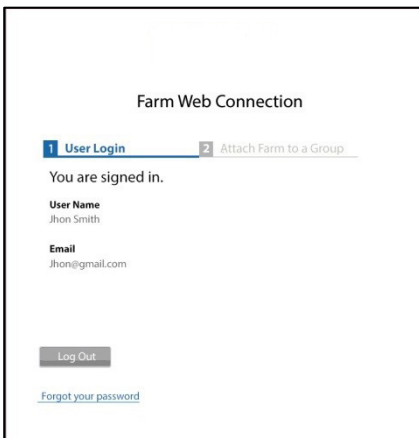
2. If you are a new user, click Sign up now. The following screen appears.



The screenshot shows the 'Farm Web Connection' 'Create a new User' screen. It has the same two-step header as Figure 20. The form fields are: 'User Name' (placeholder: 'My MuntersNetWeb User Email address'), 'Email Address', 'Password', and 'Confirm Password'. At the bottom, there are 'Cancel' and 'Create a User' buttons.

Figure 21: Create a New User Screen

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



The screenshot shows the 'Farm Web Connection' 'Sign In' screen. It has the same two-step header. The text says 'You are signed in.' Below this, the user's details are displayed: 'User Name: Jhon Smith' and 'Email: Jhon@gmail.com'. A 'Log Out' button is at the bottom, and a link for '[Forgot your password](#)' is at the bottom left.

Figure 22: Sign In Screen (Example)

NOTE To disconnect from the web, click the [Disconnect](#) button (refer to page 29).

5.3 Attaching the Farm to a Group

After signing in one of the following screens appears:

5.3.1 NO EXISTING GROUPS

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

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.

Group Name	Owner
User Name's Farms	Gorans

+ Add a Group

Attach to Group

Figure 23: No Existing Group Screen

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

5.3.2 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**.

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 24: Attach Farm to Group Screen

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

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	

Figure 25: Add a Group Screen

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.

MuntersNet Web

User Name
Farm Owner

Password
.....

Farm Name
Rotem

Language
English

Figure 26: 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.

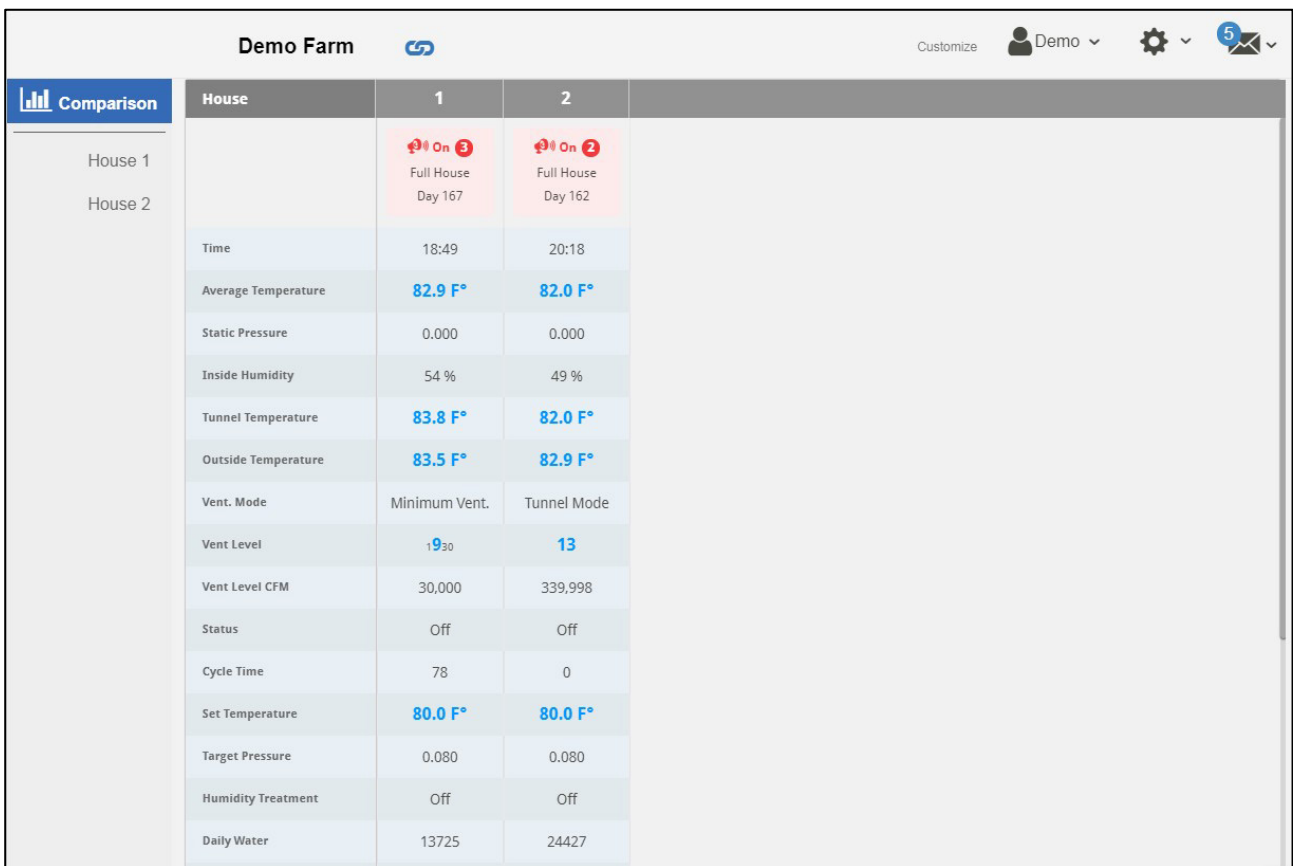
NOTE After logging in locally, you will need to log in to the Web (Log In, page 24).

6 MuntersNet Web

The following sections describe how to use the MuntersNet Web functions. All other functions are described in the Platinum Touch manual.



- MuntersNet Web Functionality
- User Settings
- Software Upgrade

After signing in, the following screen appears:



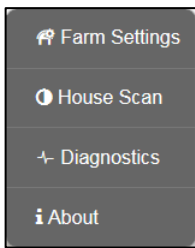
The screenshot shows the MuntersNet Web interface for a 'Demo Farm'. At the top, there is a navigation bar with 'Demo Farm', a share icon, 'Customize', a user profile 'Demo', a settings gear, and a notification bell with '5'. Below this is a 'Comparison' tab with a bar chart icon. The main content is a table comparing two houses, House 1 and House 2, across various metrics. The table has columns for 'House', '1', and '2'. The 'House' column lists 'House 1' and 'House 2'. The '1' and '2' columns show data for each house. The 'House 1' and 'House 2' rows are highlighted in light blue. The 'Full House' status for both houses is highlighted in red with a 'Full House' icon and a red 'On' indicator. The 'Time' row shows '18:49' for House 1 and '20:18' for House 2. The 'Average Temperature' row shows '82.9 F°' for House 1 and '82.0 F°' for House 2. The 'Static Pressure' row shows '0.000' for both. The 'Inside Humidity' row shows '54 %' for House 1 and '49 %' for House 2. The 'Tunnel Temperature' row shows '83.8 F°' for House 1 and '82.0 F°' for House 2. The 'Outside Temperature' row shows '83.5 F°' for House 1 and '82.9 F°' for House 2. The 'Vent. Mode' row shows 'Minimum Vent.' for House 1 and 'Tunnel Mode' for House 2. The 'Vent Level' row shows '1930' for House 1 and '13' for House 2. The 'Vent Level CFM' row shows '30,000' for House 1 and '339,998' for House 2. The 'Status' row shows 'Off' for both. The 'Cycle Time' row shows '78' for House 1 and '0' for House 2. The 'Set Temperature' row shows '80.0 F°' for both. The 'Target Pressure' row shows '0.080' for both. The 'Humidity Treatment' row shows 'Off' for both. The 'Daily Water' row shows '13725' for House 1 and '24427' for House 2.

House	1	2
House 1	Full House Day 167	Full House Day 162
House 2		
Time	18:49	20:18
Average Temperature	82.9 F°	82.0 F°
Static Pressure	0.000	0.000
Inside Humidity	54 %	49 %
Tunnel Temperature	83.8 F°	82.0 F°
Outside Temperature	83.5 F°	82.9 F°
Vent. Mode	Minimum Vent.	Tunnel Mode
Vent Level	1930	13
Vent Level CFM	30,000	339,998
Status	Off	Off
Cycle Time	78	0
Set Temperature	80.0 F°	80.0 F°
Target Pressure	0.080	0.080
Humidity Treatment	Off	Off
Daily Water	13725	24427

- Click on **House** to go to the Platinum Touch functions.
- Click on  to configure MuntersNet Web functionality.
- Click on  **Farm Owner** to configure the user definitions.

6.1 MuntersNet Web Functionality

The following section describes the MuntersNet Web functions.



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

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

6.1.1 FARM SETTINGS TAB

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

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

6.1.1.1 Farm Settings

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

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

Farm Name
NickDesk

Farm Type
Poultry

Baud Rate
9600 [Edit](#)
(Attention - Baud rate needs to be modified according to your communication device setup)

Com Port
COM4 [Edit](#)
(Attention - Com Port needs to be modified according to your communication device setup)

Your contact info for support

User Email Address
john@smith.com

Phone Number
555-5555

Address

Date and time
Thursday, August 9, 2018 4:03 AM [Change date and time](#)

Time zone
(UTC+02:00) Jerusalem

Number Of Houses To Be Scanned

House Number	House Name	House Number	House Name
<input checked="" type="checkbox"/> 1	House 1	<input type="checkbox"/> 17	House 17
<input type="checkbox"/> 2	House 2	<input type="checkbox"/> 18	House 18
<input type="checkbox"/> 3	House 3	<input type="checkbox"/> 19	House 19

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

- **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 24).

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!**
- **Baud rate:** This rate must be the same throughout the network.
- **Com Port**
- **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.

6.1.1.2 Push Notifications

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

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

WARNING! *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).*

6.1.1.3 Local Users

NOTE This tab and screen only appear when connected directly to the CommBox (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

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.

6.1.1.4 Data Collect

Refer to Appendix B: Data Collection, page 44.

6.1.1.5 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.

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

Refer to Appendix A: Generating an Activity Log, page 38 for detailed information on this function.

6.1.1.6 General Settings

Refer to Appendix B: Data Collection, page 44.

6.1.2 HOUSE SCAN TAB

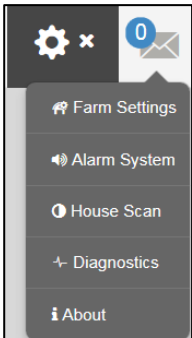
The House Scan screen:

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

Pigs Farm									
		Farm Owner							
House 1	Scan Progress	Rescan farm houses							
House 2	House	1				2			
House 3	Room	1	2	3	4	5	6	7	
House 4	Ping	Passed	Passed	Passed	Passed	Passed	Passed	Passed	
House 5	Analyze	Passed	Passed	Passed	Passed	Passed	Passed	Passed	
House 6	Load Controller Configuration	Passed	Passed	Passed	Passed	Passed	Passed	Passed	
House 7	Load Controller Data	Passed 50%	Passed 100%	Passed 100%	Passed 100%	Passed 100%	Passed 100%	Passed 100%	
	Controller Type	AC2000 PLUS PIG	SUPERGUARD	SUPERGUARD	SUPERGUARD	SUPERGUARD	SUPERGUARD	SUPERGUARD	
	Controller Version	8.13.3	2.11.01	2.11.01	2.11.01	2.11.01	2.11.01	2.11.01	
	Check to rescan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

6.1.3 DIAGNOSTICS TAB

CommBox 4.6.0.35 includes a basic diagnostics package.



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

Diagnostics

Device Details

[Go Back](#)

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 <input type="text"/> House Number 1 <input type="text"/> <input type="checkbox"/> Repeatable	Run Test	
		Com 2 Connection 9600 <input type="text"/> House Number 1 <input type="text"/> <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](#)

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.

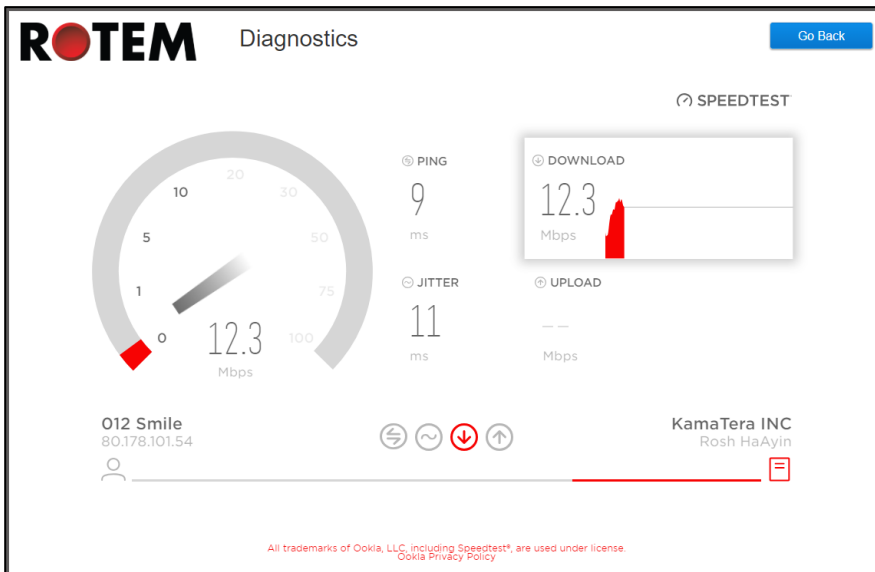
- Use this screen and the information it supplies when speaking with technical support.
- Diagnostic Tests enables the following tests:
 - Lan test
 - Internet tests
 - Support tests
 - COM Port test. This option can be used to test the communication between the CommBox and any house. Enter the number 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 	Com4 Connection 9600 House Number 1 <input type="checkbox"/> Repeatable	Run Test	✓ 1.2609012	

- 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.

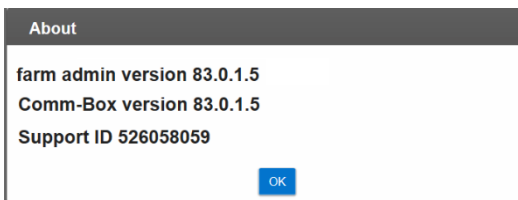
Test Name	Test Instruction			Pass	Fail
Comm Port Connection	<ul style="list-style-type: none"> • Connect Serial RS232 Cable From Controller To Comm Port 1 At The Comm-Box. • Go To Communication Menu (Under Install Menu On PP Controller System in Touch Controller). • Set The House Number to 1 and Baud 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	

- Enables a speed test.



6.1.4 ABOUT TAB

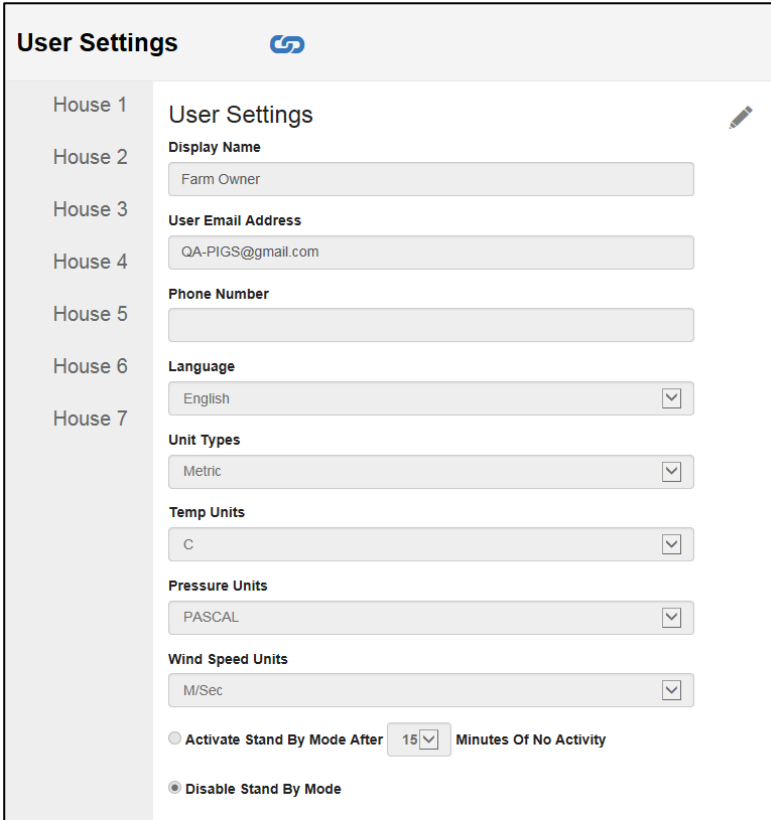
This screen displays the product and software version. Send this information to technical support in the event that you require assistance. The Support ID enables remote technical support from Munters or from your dealer.





6.2 User Settings

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

. 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.

6.3 Software Upgrade

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.

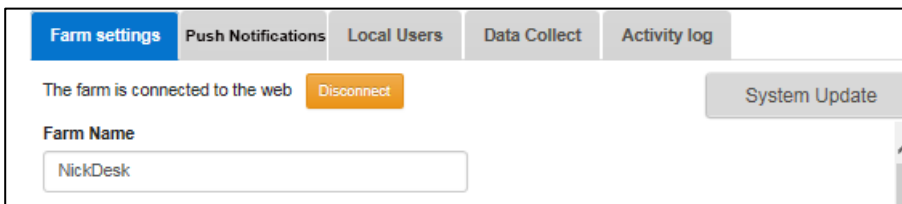
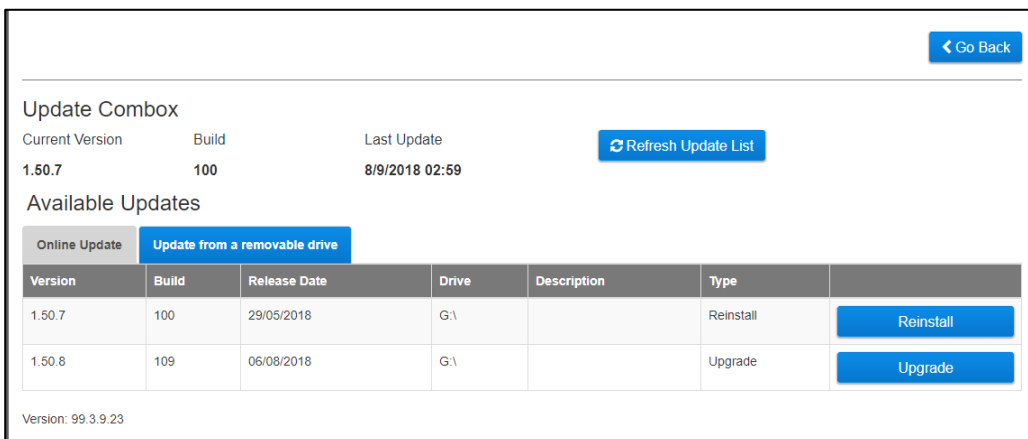


Figure 27: Farm Settings

3. Click **System Update**. The following screen appears:



- 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.

[← Go Back](#)

Update Combox

Current Version	Build	Last Update	Refresh Update List
1.50.7	100	8/9/2018 02:59	

Available Updates

[Online Update](#) [Update from a removable drive](#)

Update Files Not Found

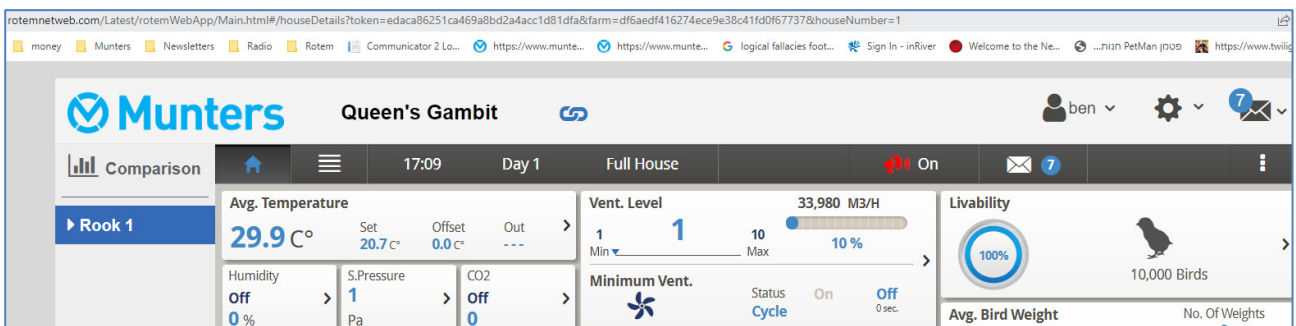
Version: 99.3.9.23

7 Appendix A: Generating an Activity Log

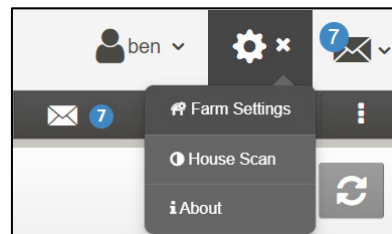
The following section details how to use the Activity Log, in particular how to determine who made changes to the controllers' settings. Please note:

- 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.

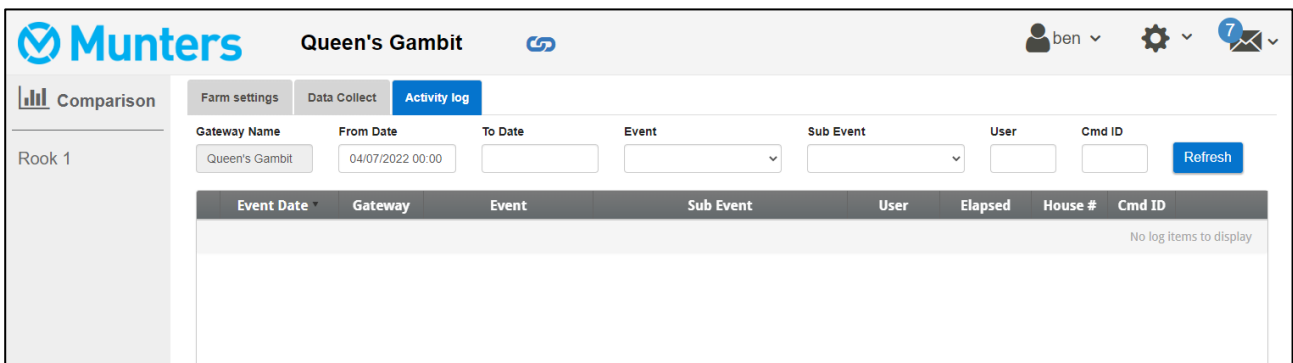
1. Connect to a farm via www.rotetnetweb.com.



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. See the list in the following table.

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

Gateway Name	From Date	To Date	Event	Sub Event	User	Cmd ID				
Queen's Gambit	04/07/2022 00:00		Save Farm Data							Refresh
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		

- 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
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

CMD IDs and Description		
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 Parametes	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 Alarams	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
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

CMD IDs and Description		
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 Laout	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
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

CMD IDs and Description		
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
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

CMD IDs and Description		
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	

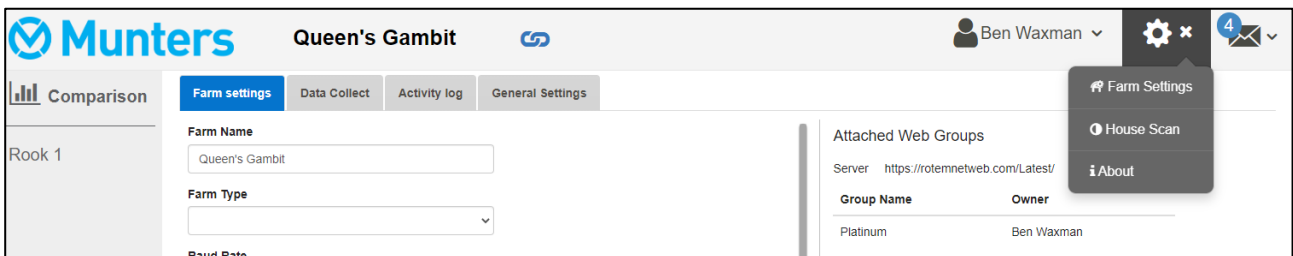
8 Appendix B: Data Collection

8.1 Centralized Collection

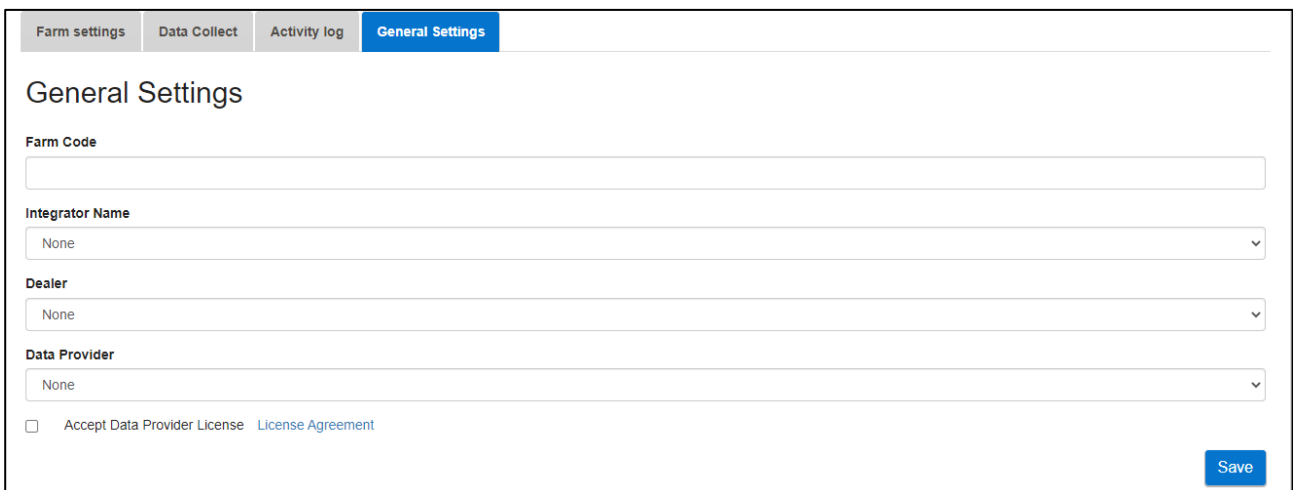
NOTE Only use the Centralized Collection function after consulting with Munters technical support.

- Only the group owner or administrator can define the General Settings. The following tab does 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.

1. In the settings icon, select Farm Settings.



2. Go to Farm Settings > General Settings.



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

Integrator Name

Dealer

Data Provider

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.

8.2 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

Data Upload Settings Log

▼ **Data Upload Settings**
Data Upload Allowed

Farm name for collect

License key

Expired date

Allow to change settings

FTP SFTP ?

FTP Remote Server Details

Host Address

Port Number

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 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.

9 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 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](#).

