

Manual for use and maintenance

Communicator 2.0



Communicator 2.0

Communication System

Ag/MIS/UmGb-2634-10/18 Rev 1.3

P/N: 116641



Communicator 2.0

Manual for use and maintenance

Document Revision: 1.3, 01/2020

Ag/MIS/UmGb-2634-10/18 Rev 1.3 (MIS)

Software Ver: 3.5.6

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 an Communicator 2.0!

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 fan, 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 Controllers.

1.3 Notes

Date of release: October 2018

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

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2 Introduction to the Communicator 2.0

Communicator 2.0 provides complete access to your Munters controllers, including monitoring and control capabilities, from any device, anywhere, along with alarms and events sent directly to your mobile device, PC, or tablet. From one computer, tablet, or smartphone, you can manage an entire network.

- Web and Cloud-based access to controllers
 - Multiple, simultaneous users have network access
- Multiple communication pathways:
 - Built-in internet and telephone connectivity
 - Cellular modem enables wireless communication
- Plug ins:
 - Cell modem according to the user's region (3G Worldwide, 4G US, 4G Worldwide)
 - Line modem

NOTE Voice functions require a line modem.

- Supports Munters' Web Application and Smart Phone Application
- Push notifications
- Access rights management
- Programmable alarms
 - Text messages sent in a variety of languages
 - Alarms and data in real time
- Test functions ensure the Communicator 2.0 works as required

3 Hardware Installation

This document details how to install Munters' Communicator 2.0 unit. Installation can include the following:

- Precautions
- Communicator 2.0 Ports
- Interior
- Mounting the Communicator 2.0
- Grounding
- Connecting the Communicator 2.0 to the Internet
- Connecting the Communicator 2.0 to a Phone Line
- Attaching the Antenna
- Connecting the Communicator 2.0 to a Peripheral Device
- Connecting the Communicator 2.0 to a Controller or RLINK One
- Enabling SMS Messages
- Testing the Battery

NOTE: *After installing the unit, check the LEDs (page 46) to make sure that everything is working as required.*

3.1 Precautions

Observe the following precautions when using your unit.

- Keep the Communicator 2.0 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 reduce 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 Communicator 2.0 Ports

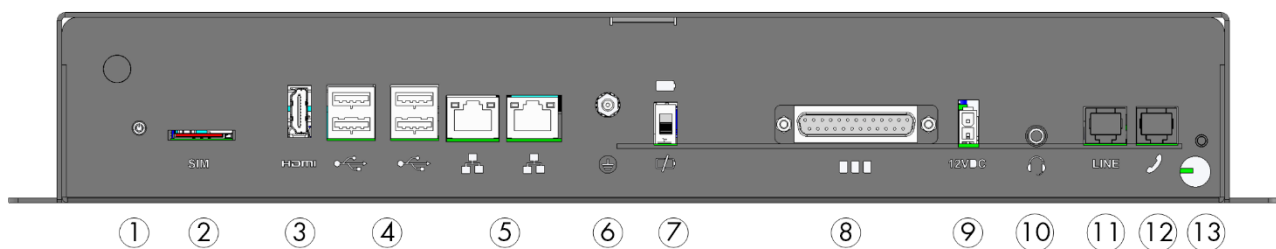


Figure 1: External Ports

Table 1: Ports Description

Number	Description	Number	Description
1	Antenna mounting port (refer to Attaching the Antenna, page 11)	8	25 pin connector (External box) (refer to Connecting the Communicator 2.0 to a Controller or RLINK One, page 12)
2	SIM card (internal cell modem) (refer to Enabling SMS Messages, page 15)	9	12 VDC
3	HDMI port (computer screen) (refer to Connecting the Communicator 2.0 to a Peripheral Device, page 11)	10	Audio out (external speaker)
4	USB ports (mouse, KBD) (refer to Connecting the Communicator 2.0 to a Peripheral Device, page 11)	11	Internet line port (refer to Connecting the Communicator 2.0 to the Internet, page 11)
5	LAN ports	12	Phone line port (refer to Connecting the Communicator 2.0 to a Phone Line, 11)
6	Grounding (refer to Grounding, page 10)	13	Power cord
7	Battery disconnection switch		

3.3 Interior

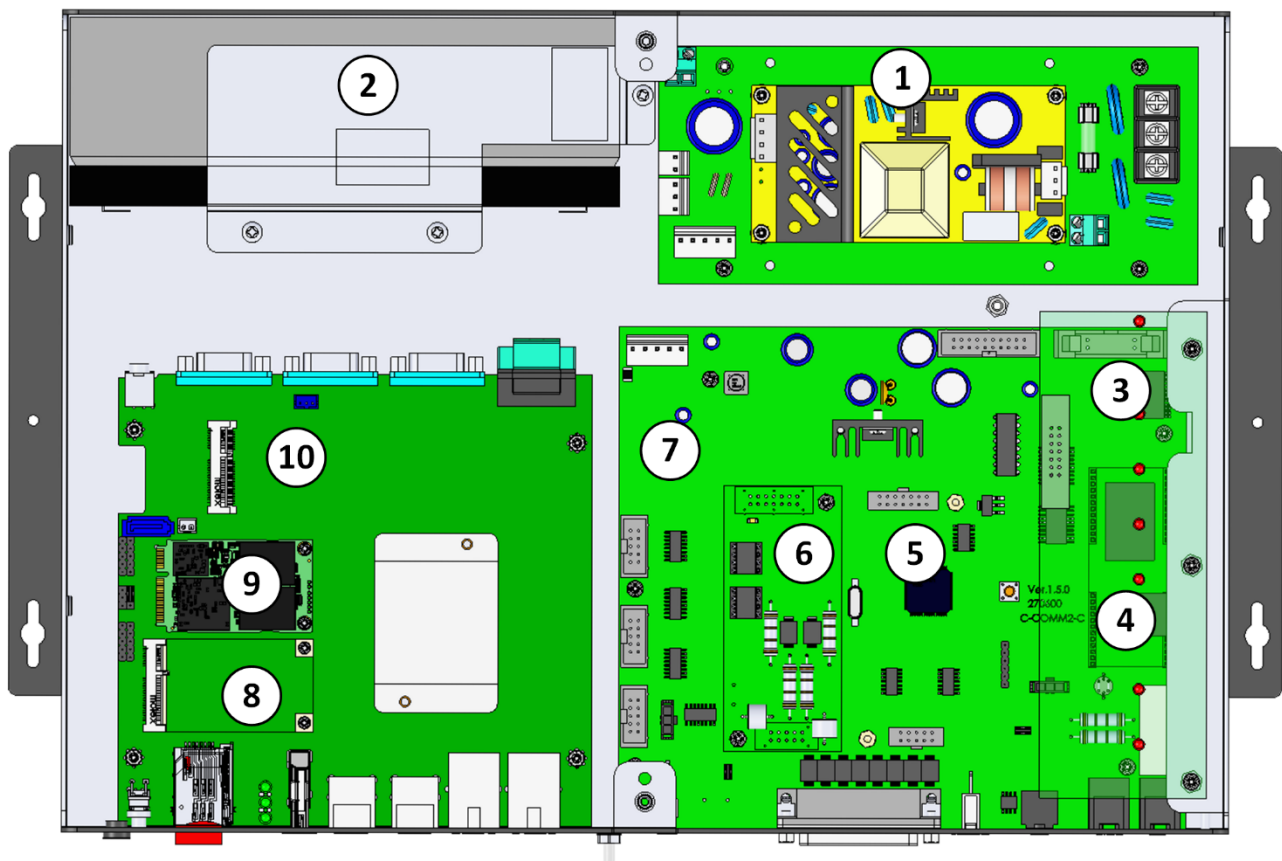


Figure 2: Components

Table 2: Component Description

Number	Description	Notes
1	Power Supply	
2	Battery (refer to Appendix A: Changing the Battery, page 48)	
3	LED Board	
4	Line Modem Card	This card is under the LED board
5	Not used	
6.1	Communication Card, RS485	OR
6.2	Communication Card, RS232	
7	Board	
8	Cell Modem	
9	SSD Card	
10	Main CPU	

3.4 Mounting the Communicator 2.0

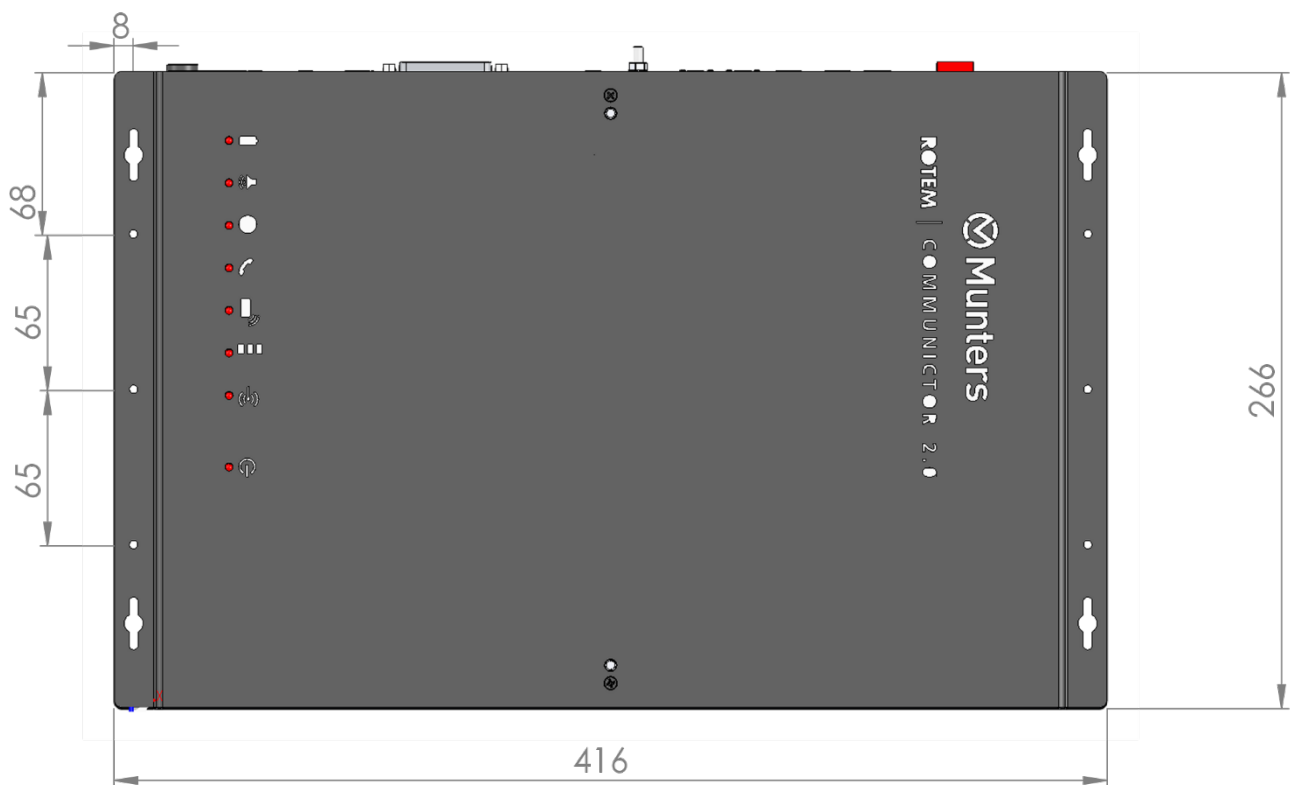
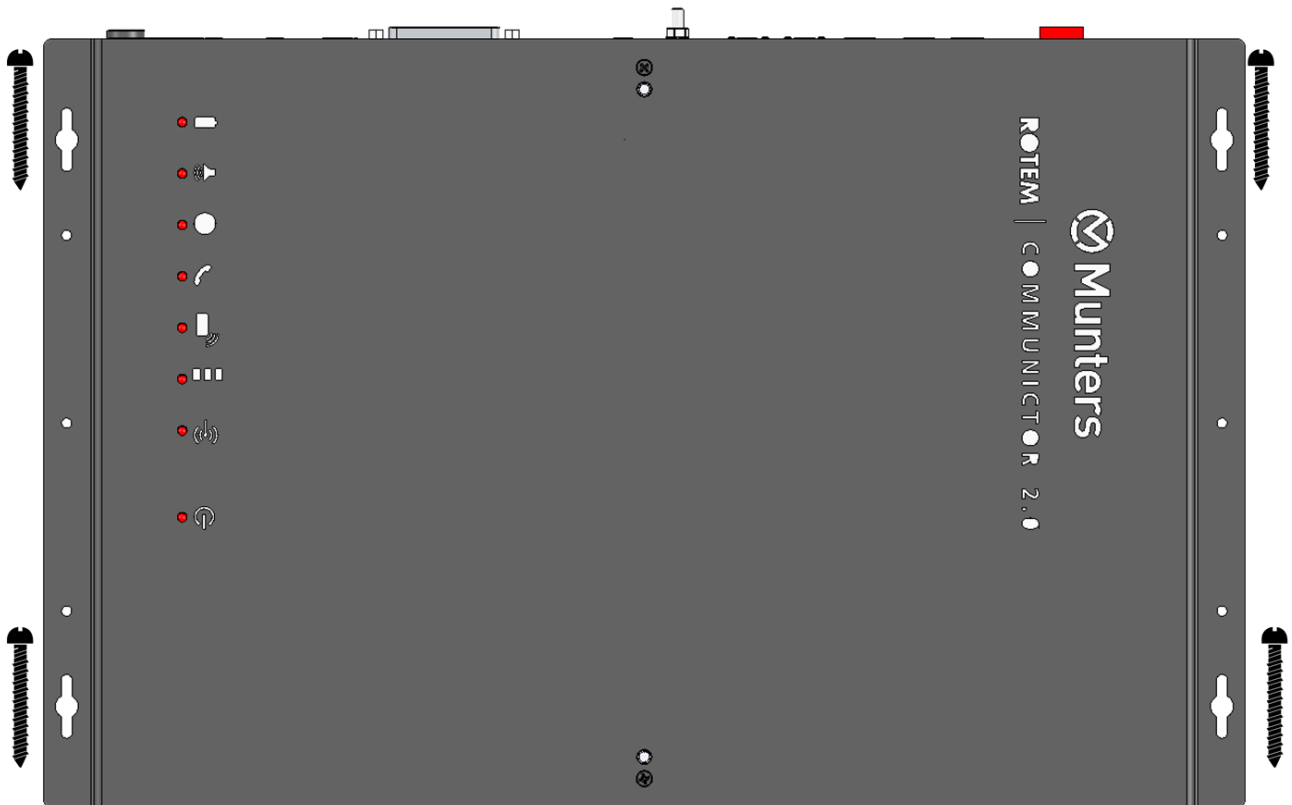


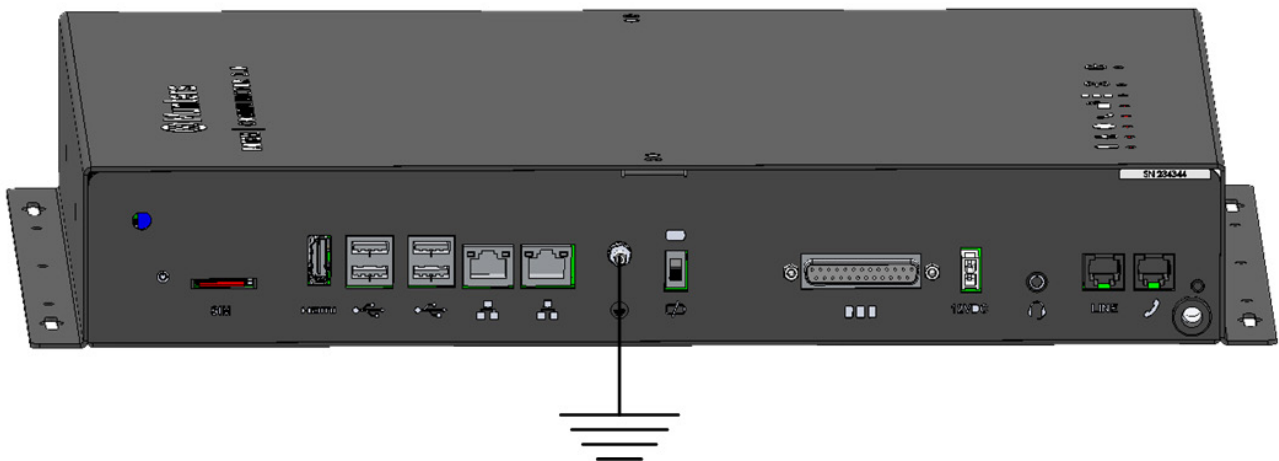
Figure 3: Dimensions (mm)

- Mount the unit using the four supplied screws.



3.5 Grounding

- Connect the ground cable to the dedicated ground terminal.



CAUTION *The Communicator 2.0 must be grounded at all times!*

3.6 Connecting the Communicator 2.0 to the Internet

- Connect the Communicator 2.0 to your Internet connection.



3.7 Connecting the Communicator 2.0 to a Phone Line



3.8 Attaching the Antenna

If the Communicator 2.0 comes with a cell modem, attach the antenna.



3.9 Connecting the Communicator 2.0 to a Peripheral Device

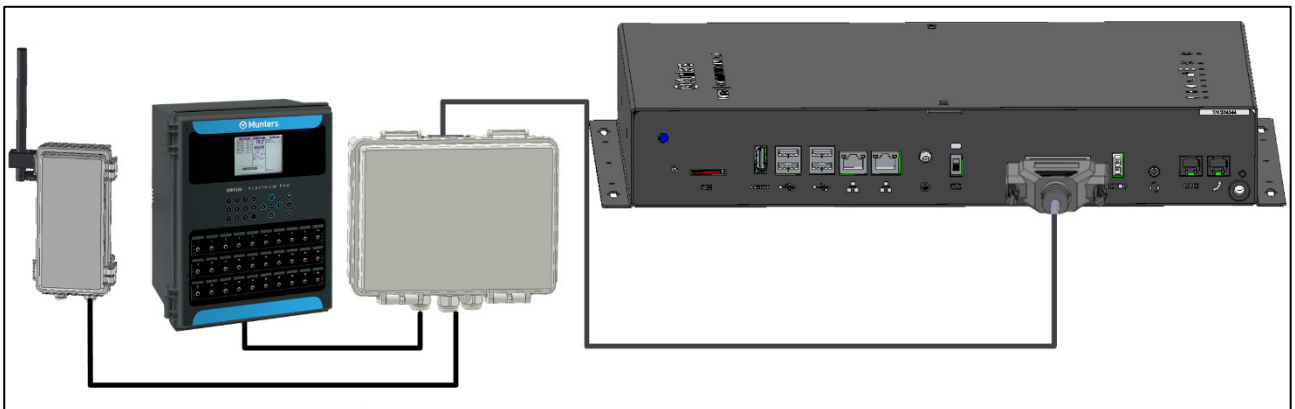
- If required, connect a screen and key board to the Communicator 2.0 (via the four USB or single HDMI ports).

NOTE: *You'll need to connect the Communicator 2.0 to these devices for the Activation.*



3.10 Connecting the Communicator 2.0 to a Controller or RLINK One

The only step in installing a Communicator 2.0 that requires wiring is when connecting the Communicator 2.0 to the controllers or to the RLINK One RF Communication Unit.



- Plug the 25 pin connector into Communicator External Box cable.

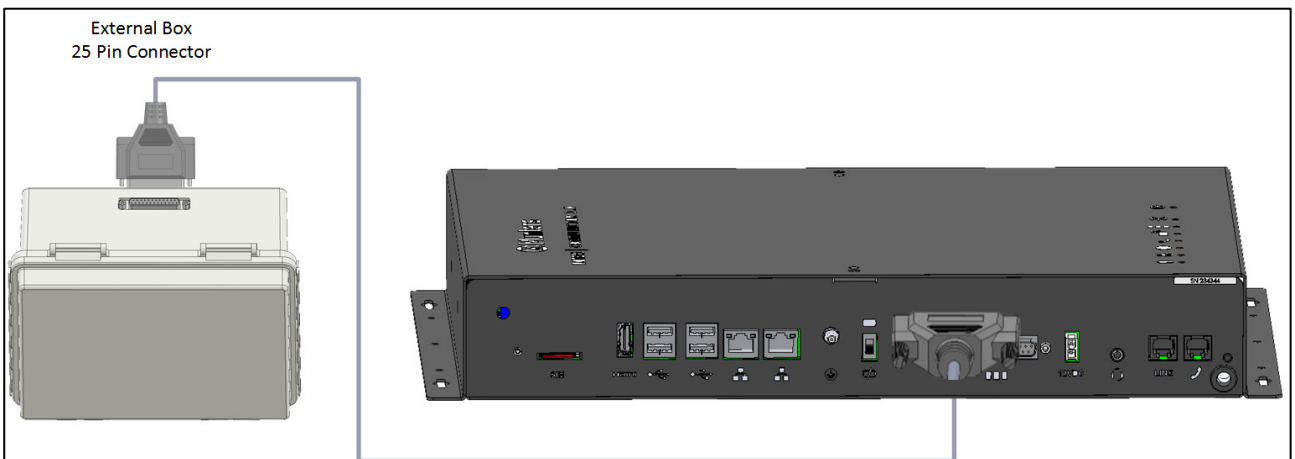


Figure 4: External Box – Communicator 2.0 Cable

- Controller Connection
- RLINK One Connection

CAUTION You can connect an RLINK One and a controller to the same Junction Box, using the same ports shown in the following diagram. Do not wire the Junction Box or controller to the Junction Box's upper communication ports.

3.10.1 CONTROLLER CONNECTION

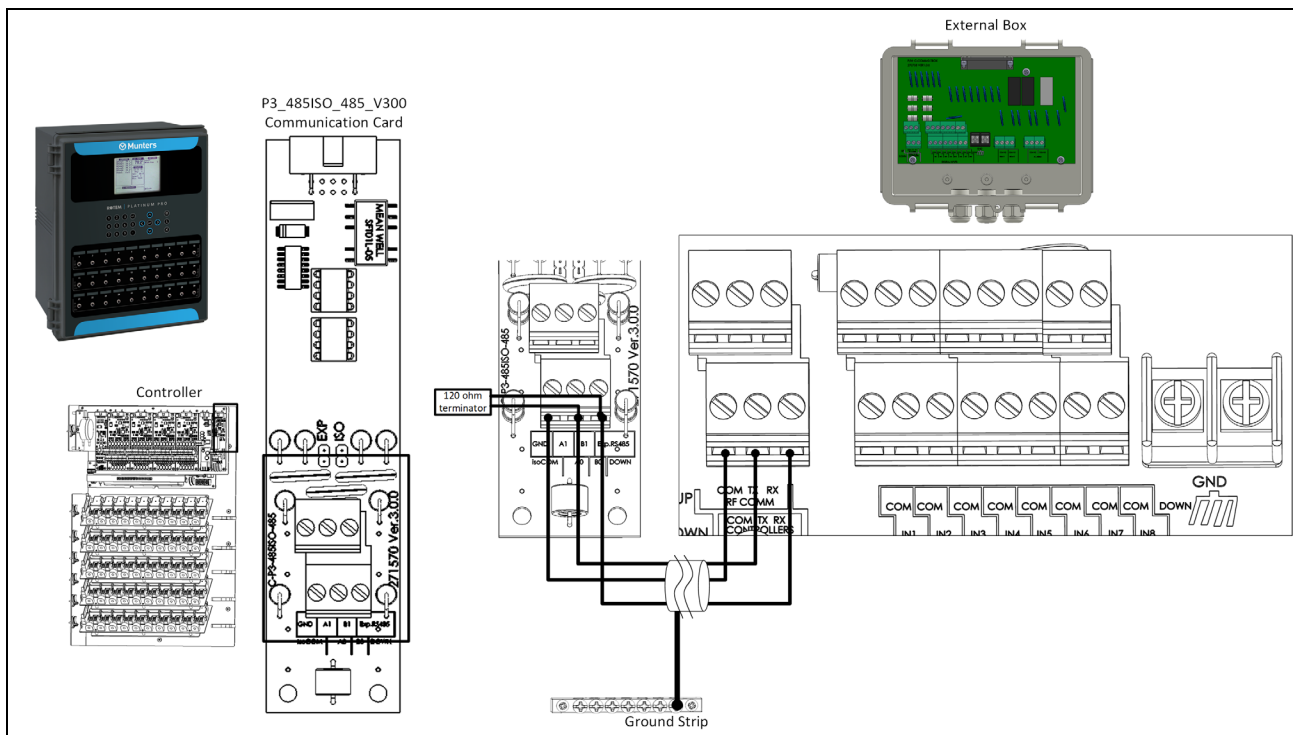


Figure 5: External Box – Controller Isolated RS-485 Connection

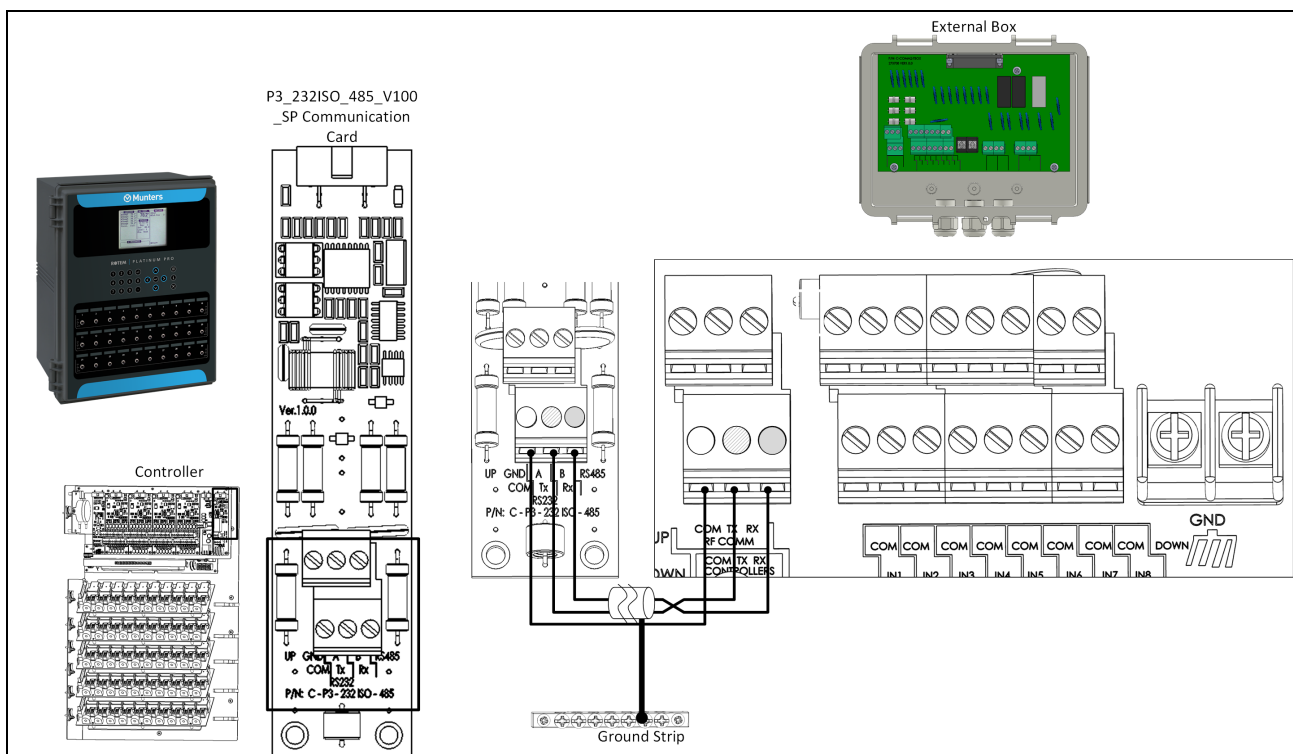


Figure 6: External Box – Controller RS-232 Connection

3.10.2RLINK ONE CONNECTION

- Wire the Communicator External Box to the RLINK One as shown in the following diagram.

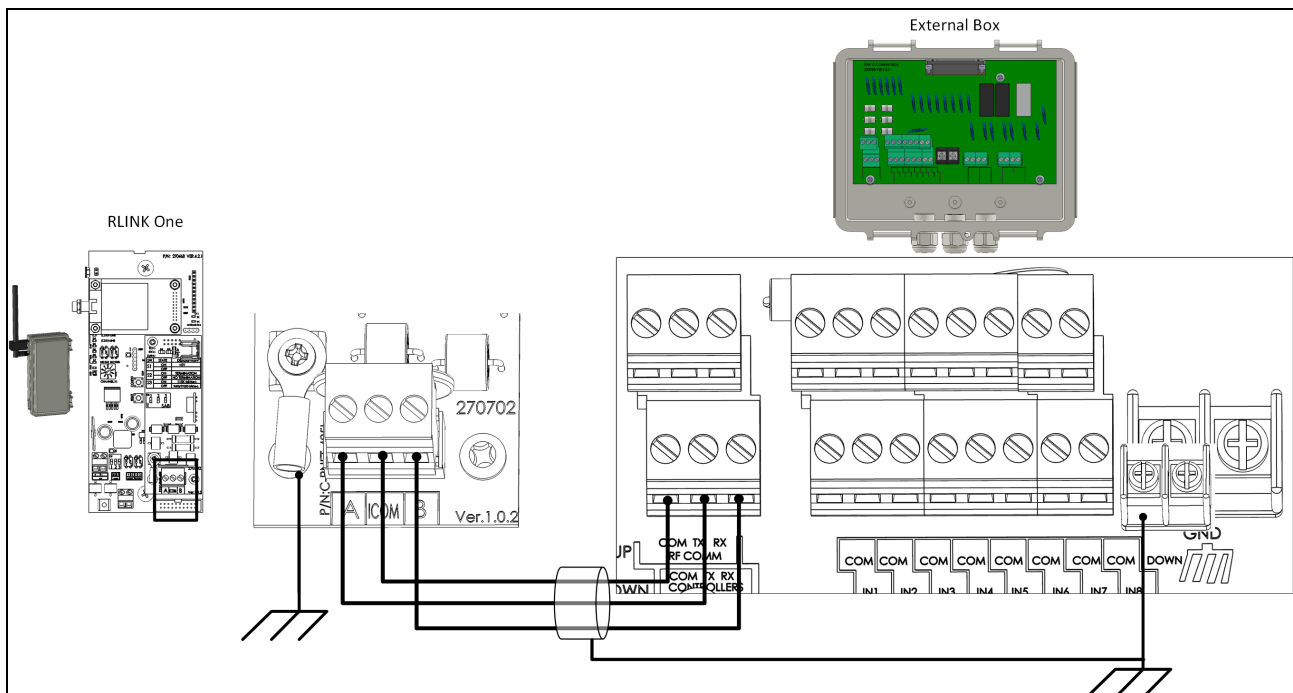


Figure 7: External Box – RLINK One Isolated RS-485 Connection

NOTE: *RLINK One supports RS-485 infrastructure only.*

3.10.3 WIRING TOPOLOGY

When connecting the Communicator 2.0 to controllers via an **RS-485 infrastructure**, use one of the following allowed topologies to ensure signal integrity.

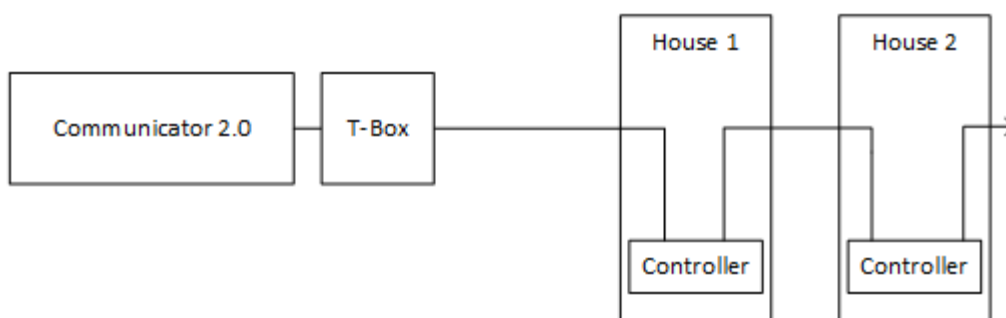


Figure 8: Direct connections

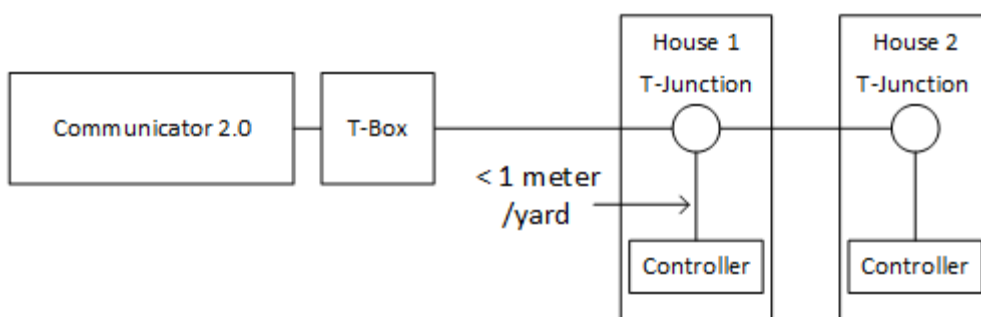


Figure 9: T-Junction (permitted)

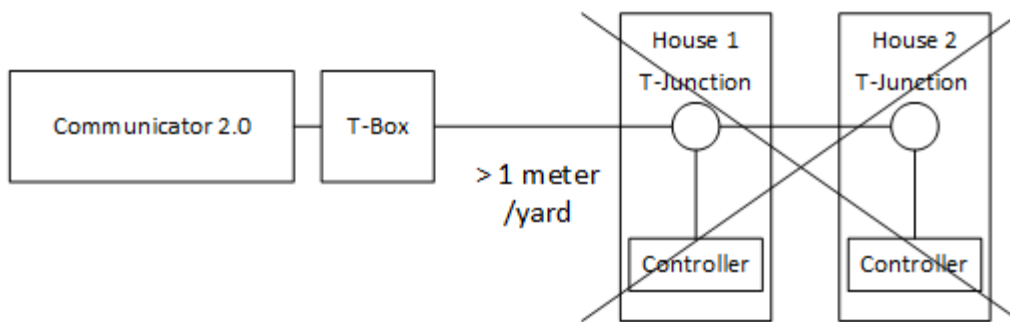


Figure 10: T-Junction (not permitted)

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

3.10.4 TERMINATION

Termination, installing 120 ohm termination resistors at the beginning and end units of each chain of Communicator 2.0 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 Topologies
- Termination Wiring

3.10.4.1 Termination Topologies

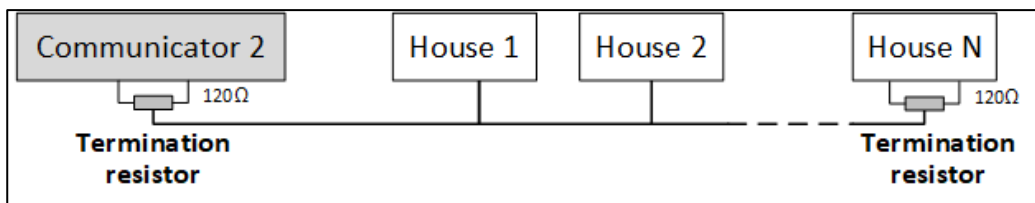


Figure 11: Topology 1: Communicator 2.0/House Termination

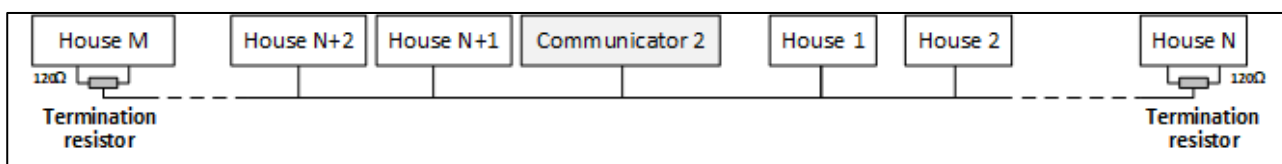


Figure 12: Topology 2: House Termination

The following two topologies require Munters RS-485 Repeaters.

CAUTION Install the repeater within one meter of the Communicator 2.0 T-Box

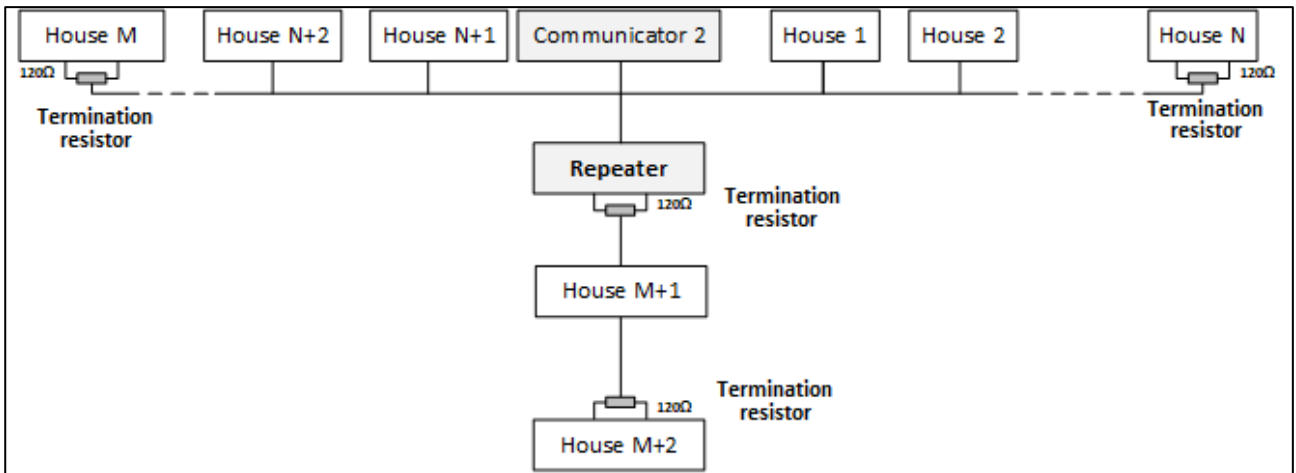


Figure 13: House and Repeater Termination

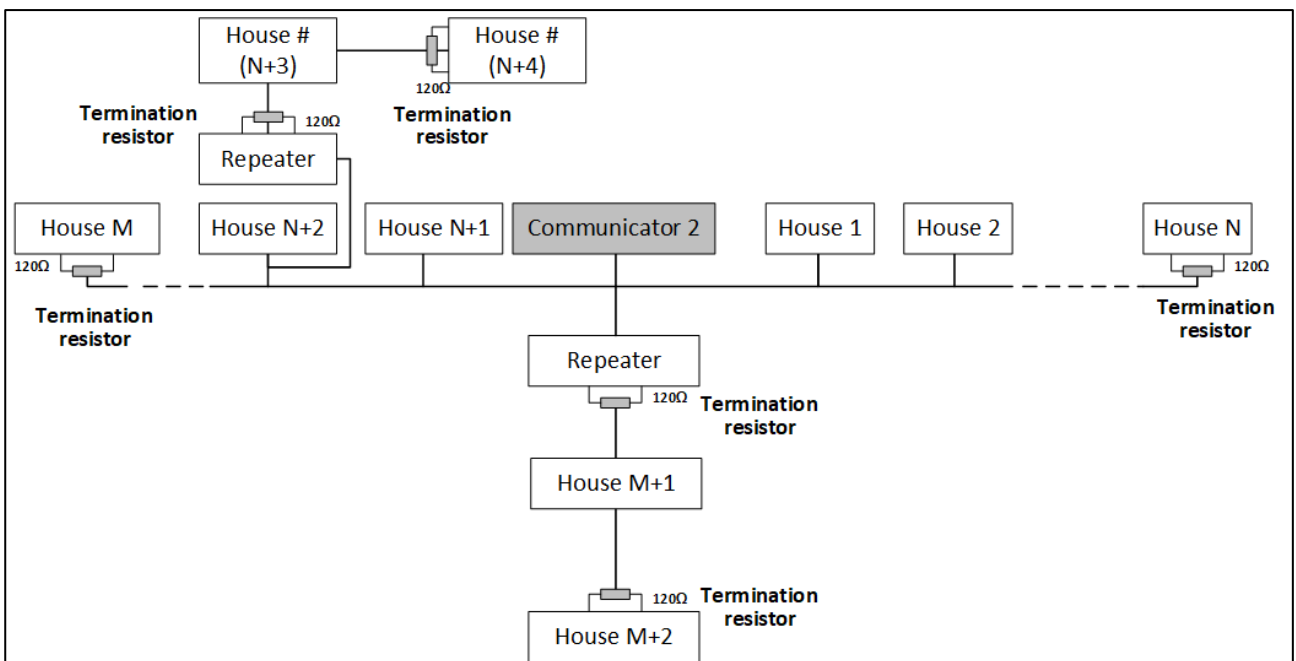


Figure 14: House and Multiple Repeaters Termination

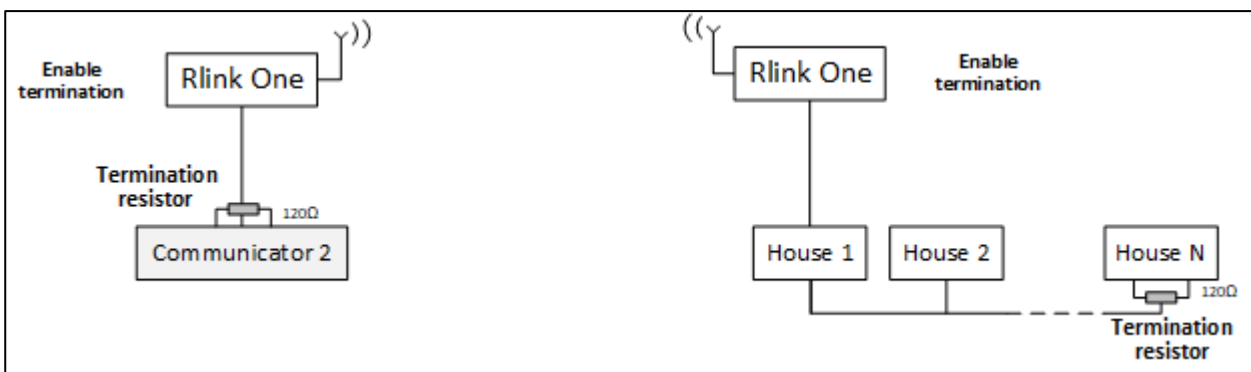


Figure 15: RLink and House Termination

NOTE When using an RLINK One Wireless Communication unit, refer to the RLINK One Manual, which provides detailed information on RLINK termination.

3.10.4.2 Termination Wiring

- Communicator 2.0: Install the termination resistor in the T-Box.

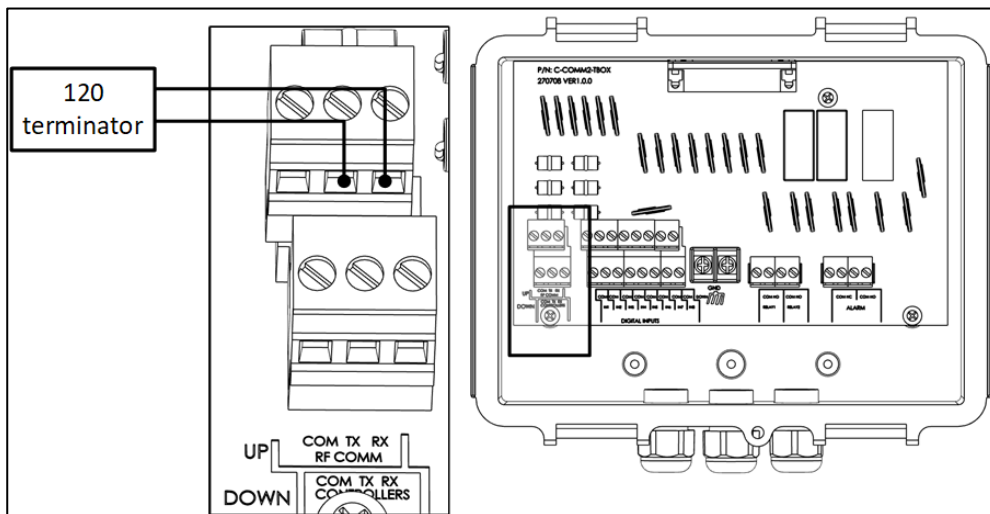


Figure 16: T-Box termination

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

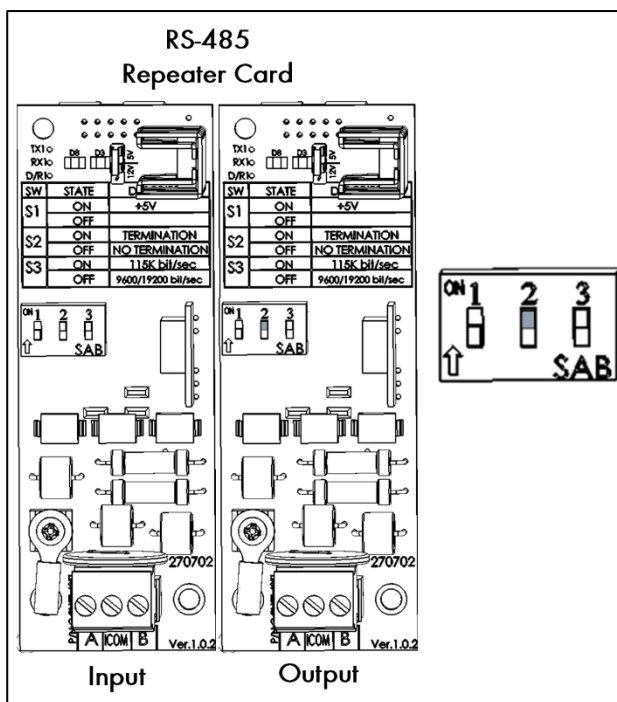


Figure 17: Repeater termination

3.11 Enabling SMS Messages

- Sending SMS message requires a Communicator 2.0 having an internal modem (supplied by Munters if ordered). This modem will support your cellular infrastructure and region (4G US, 4G ROW, 3G)
- Insert a 3G or 4G standard SIM card as indicated:



SIM Card

3.12 Testing the Battery

CAUTION Munters highly recommends testing the battery immediately after completing the installation!

1. Ensure that the battery is charged (Green LED should be on continuously). If the LED blinks, wait.
2. Disconnect the AC power. Power LED turn red.
3. You should receive an alarm according to the contact list settings.
4. After receiving the alarm message, reapply power.

4 Using Communicator to Manage Controllers

- Introduction to Controller Management
- Activating the Account
- Connecting the Communicator 2.0 to RotemNet Web
- Attaching the Farm to a Group

4.1 Introduction to Controller Management

When using the Communicator 2.0 to connect to your farm(s), you must:

- Connect (activate) the Communicator 2.0 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).

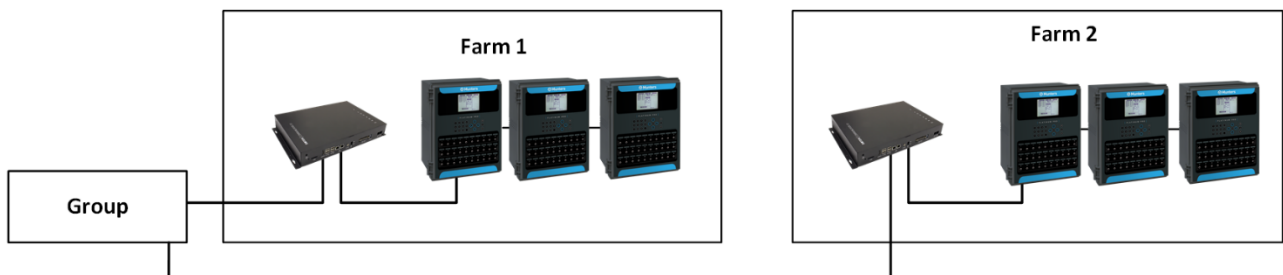


Figure 18: Group Example

As an example, an account manager has set up two Groups and wants to add three different users to his account. Any combination is possible.

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

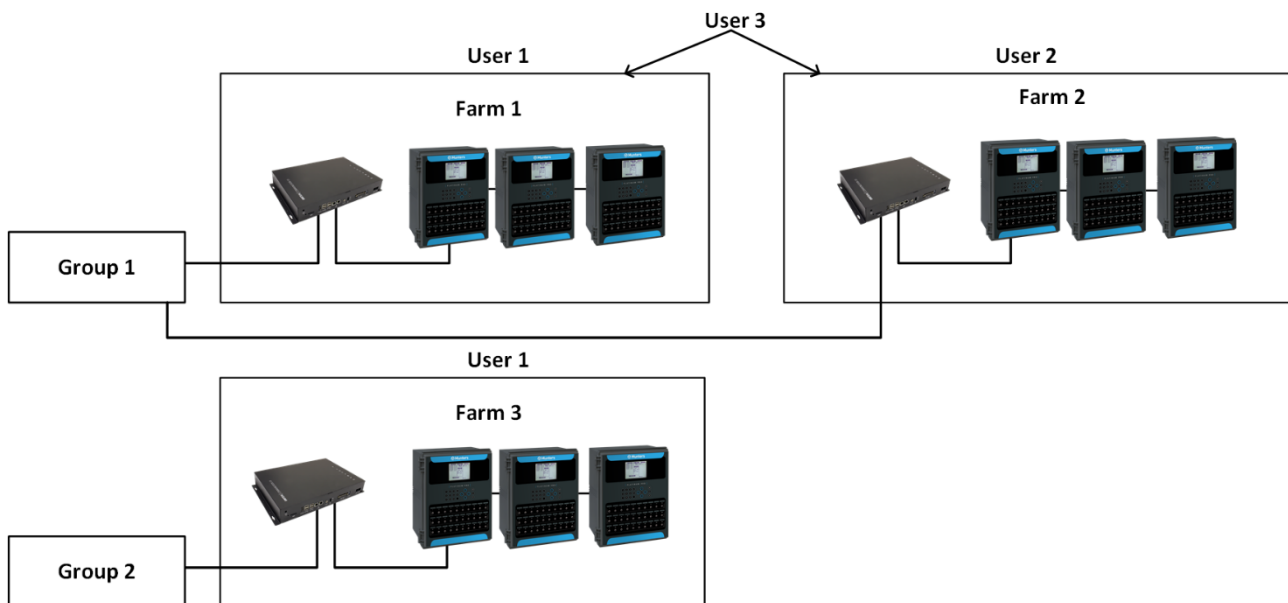


Figure 19: Assigning Farms to Groups

4.2 Activating the Account

NOTE It is not required to physically connect the Communicator 2.0 to controllers to activate the account. This step can be done at a later time.

1. Install the unit and connect the Communicator 2.0 to a computer screen and keyboard (Connecting the Communicator 2.0 to a Peripheral Device, page 11).
2. Apply power to the Communicator 2. The following screen appears:

The screenshot shows the ROTHM Farm Activation screen. It includes fields for Language (English), Farm Name (My New Farm Name), Farm Type (Poultry), Baud Rate (1200), and Com Port (COM1). Below these fields is a table titled 'Number Of Houses To Be Scanned' with columns for House Number and House Name. The table lists houses 1 through 25, each with a checkbox for selection.

House Number	House Name	House Number	House Name
<input 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
<input type="checkbox"/> 4	House 4	<input type="checkbox"/> 20	House 20
<input type="checkbox"/> 5	House 5	<input type="checkbox"/> 21	House 21
<input type="checkbox"/> 6	House 6	<input type="checkbox"/> 22	House 22
<input type="checkbox"/> 7	House 7	<input type="checkbox"/> 23	House 23
<input type="checkbox"/> 8	House 8	<input type="checkbox"/> 24	House 24
<input type="checkbox"/> 9	House 9	<input type="checkbox"/> 25	House 25

3. Define the parameters:

- Language: Chose the language from the drop down list.
- Give your farm a name.
- Choose the farm type, Poultry or Pig.
- Baud Rate and Com Port: If required, edit these settings.

4. Under Number of Houses to be Scanned, select at least one house (**required**). You can name any house selected.

ROTEM
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Diagnosics

Farm Activation

Language
English

Farm Name
MyFarm

Farm Type
Poultry

Baud Rate
1200

Com Port
COM1

Number Of Houses To Be Scanned

House Number	House Name	House Number	House Name
<input checked="" type="checkbox"/> 1	MyFarm1	<input type="checkbox"/> 17	House 17
<input checked="" type="checkbox"/> 2	MyFarm2	<input type="checkbox"/> 18	House 18
<input checked="" type="checkbox"/> 3	MyFarm3	<input type="checkbox"/> 19	House 19
<input type="checkbox"/> 4	House 4	<input type="checkbox"/> 20	House 20
<input type="checkbox"/> 5	House 5	<input type="checkbox"/> 21	House 21
<input type="checkbox"/> 6	House 6	<input type="checkbox"/> 22	House 22
<input type="checkbox"/> 7	House 7	<input type="checkbox"/> 23	House 23
<input type="checkbox"/> 8	House 8	<input type="checkbox"/> 24	House 24
<input type="checkbox"/> 9	House 9	<input type="checkbox"/> 25	House 25

5. At the bottom of the screen click **Activate**.

6. The following screen appears:

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MyFarm

Farm Owner

Comparison

Farm settings Local Users Activity log

This farm is not connected to the web. **Connect**

Farm Name
MyFarm


Farm Type
Poultry

Baud Rate
1200

Com Port
COM1

Number Of Houses To Be Scanned

House Number	House Name	House Number	House Name
<input checked="" type="checkbox"/> 1	MyHouse1	<input type="checkbox"/> 17	House 17
<input checked="" type="checkbox"/> 2	MyHouse2	<input type="checkbox"/> 18	House 18
<input checked="" type="checkbox"/> 3	MyHouse3	<input type="checkbox"/> 19	House 19
<input type="checkbox"/> 4	House 4	<input type="checkbox"/> 20	House 20
<input type="checkbox"/> 5	House 5	<input type="checkbox"/> 21	House 21
<input type="checkbox"/> 6	House 6	<input type="checkbox"/> 22	House 22
<input type="checkbox"/> 7	House 7	<input type="checkbox"/> 23	House 23
<input type="checkbox"/> 8	House 8	<input type="checkbox"/> 24	House 24
<input type="checkbox"/> 9	House 9	<input type="checkbox"/> 25	House 25
<input type="checkbox"/> 10	House 10	<input type="checkbox"/> 26	House 26
<input type="checkbox"/> 11	House 11	<input type="checkbox"/> 27	House 27
<input type="checkbox"/> 12	House 12	<input type="checkbox"/> 28	House 28

- At this point, you can use Communicator 2.0 to configure your controllers locally. Click .
- To enable web control, click **Connect**. RotemNet Web scans the controllers.
 - If a house was checked in the above screen but is not connected to the Communicator 2, the scan fails. See House 3 in the graphic below.

House	1	2	3
Ping	Passed	Passed	Failed
Analyze	Passed	Passed	
Load Controller Configuration	Passed	Passed	
Load Controller Data	Passed 100%	Passed 100%	
Controller Type	PLATINUM PLUS PRO BROTHER PRECISION	PLATINUM PLUS PRO BROTHER PRECISION	
Controller Version	6.16.1	6.16.1	

Time	House	Method	Description
08/04/2018 16:23:50	2	Ping	None
08/04/2018 16:23:51	3	Ping	None

4.3 Connecting the Communicator 2.0 to RotemNet Web

NOTE You must have set up your RotemNet Web account to initiate this process. If you do not have an account, refer to *Creating a New Account*.

1. On the screen click **Connect**. The following screen appears:

Farm Web Connection

1 User Login

2 Attach Farm to a Group

Use your RotemNetWeb User to login.
Not registered yet ? [Sign Up Now](#)

User Email Address

Password

Language

Selected Region

[Login](#)

[Forgot Password](#)

[Close](#)

2. [Sign Up](#) or [Login](#).

4.3.1 CREATING A NEW ACCOUNT

1. Connect the Communicator 2.0 to your LAN (i.e. your modem).

NOTE Users having a local account with no internet access, uncheck the *Allow to Manage Farms From the Internet* checkbox.

2. In your browser, enter the Communicator 2's URL address (Munters supplies this information). The Activation screen appears.

Figure 20: Create a New User

3. Under Create a new user, fill in the fields and click **Create a user**. The following screen appears.

Figure 21: Farm Type

4. Select the Account Type, **Single** or **Multiple**.

- Name the account.
- Click **Next**.

The following screen appears.

Figure 22: Farm Definition

5. Type in the farm name and define the fields.

6. Click **Activate**.

7. In the following screen, click **Start scan**.

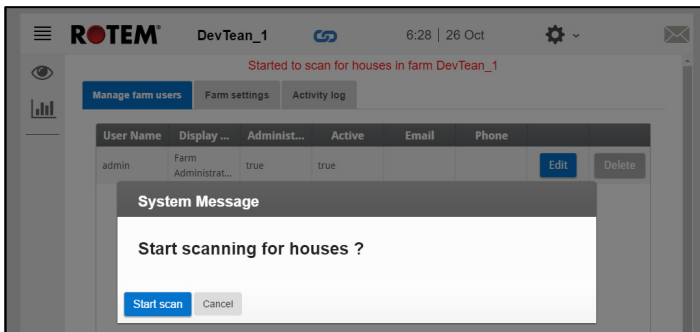


Figure 23: Scan Initiation

After scanning the controllers, the web application appears:

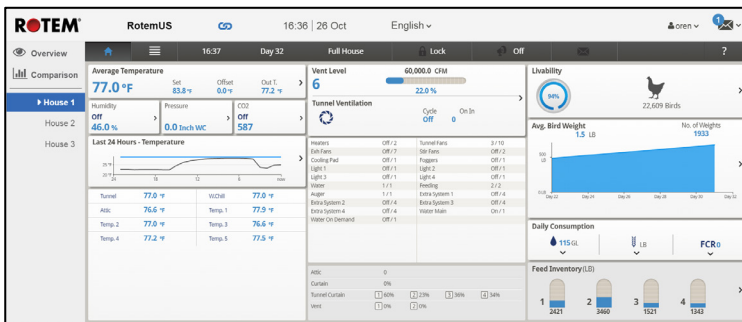


Figure 24: Scanned System (example only)

4.3.2 LOGIN TO AN EXISTING ACCOUNT

1. Connect the Communicator 2.0 to your LAN (i.e. your modem).
 2. In your browser, enter the Communicator 2's URL address (Munters supplies this information).
- The Activation screen appears.

Figure 25: Login screen

3. Under Login to your account, fill in the fields and click **Login**.
4. In the following screen, click **Start scan**.

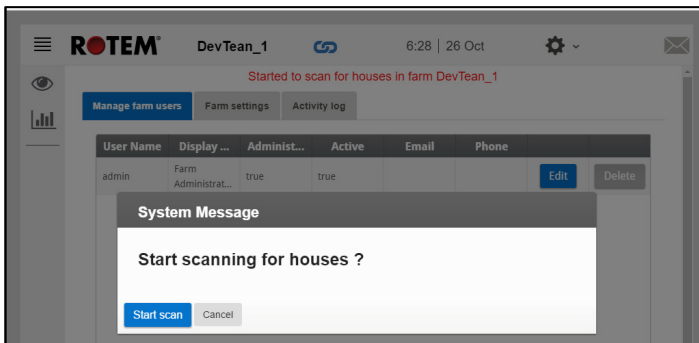


Figure 26: Scan Initiation

After scanning the controllers, the web application appears (Figure 15).

4.4 Attaching the Farm to a Group

- No Existing Groups
- Groups Exist

4.4.1 NO EXISTING GROUPS

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

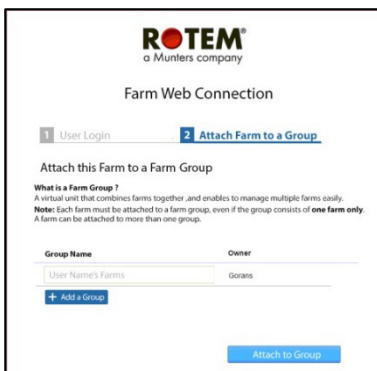


Figure 27: No Existing Group Screen

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

4.4.2 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**.

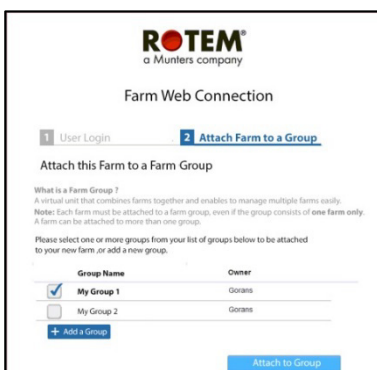


Figure 28: Attach Farm to Group Screen

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

ROTEM
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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.
Notes: 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 29: Add a Group Screen

4.5 LAN Logon

Users connected to the Communicator 2.0 via a LAN connection can log on by typing the serial number into the URL.

1. On the back side of the Communicator 2.0 is a white label with an 12 character serial number:



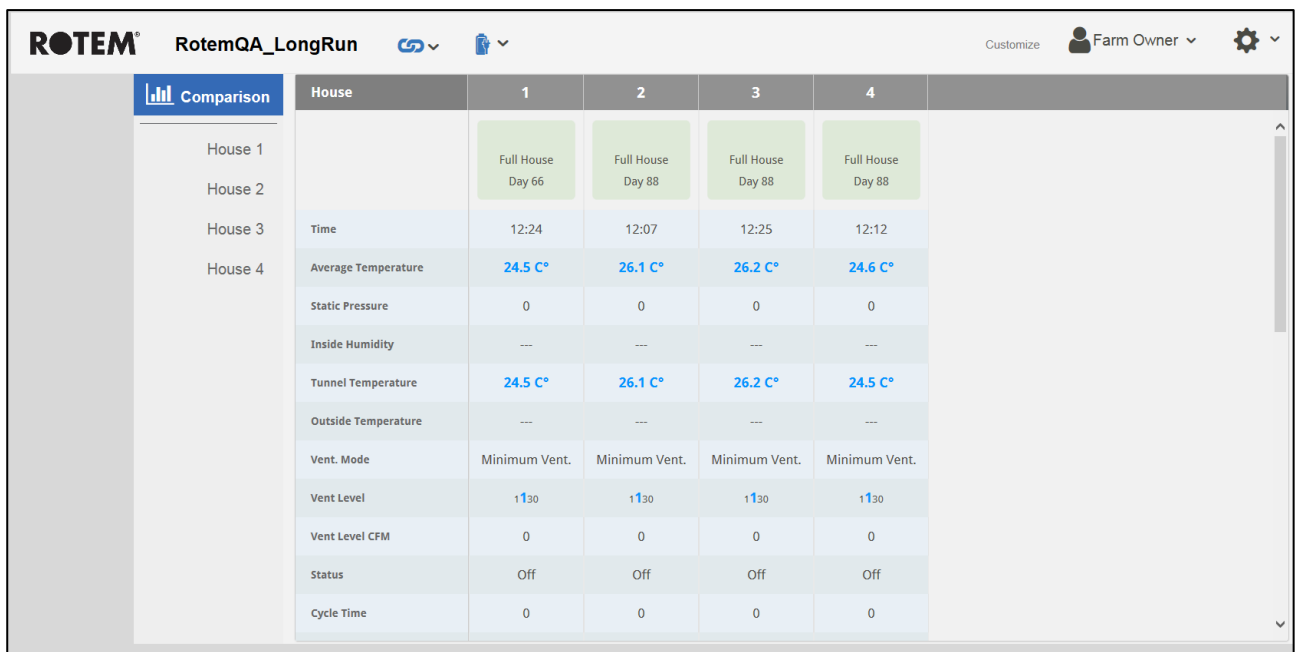
2. In a browser type <http://rcbox-XXXXXXX>, where XXXXXXXX represents the eight digits in the serial number. For example, this unit's url would be: <http://rcbox-02009494>.

5 RotemNet Web

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





- RotemNet Web Functionality
- User Settings
- Software Upgrade
- Battery Status
- Controllers Connectivity

After signing in, the following screen appears:



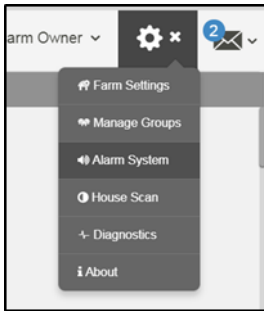
The screenshot shows the RotemNet Web interface. At the top, there is a header with the ROTEM logo, the title 'RotemQA_LongRun', and several icons (a link icon, a battery icon, and a settings icon). On the right side of the header, there are links for 'Customize', 'Farm Owner' (with a dropdown arrow), and a settings gear icon. Below the header, there is a sidebar on the left with a 'Comparison' tab selected. The main content area displays a table with data for four houses. The table has columns for 'House', '1', '2', '3', and '4'. The rows include 'House 1', 'House 2', 'House 3', 'House 4', 'Time', 'Average Temperature', 'Static Pressure', 'Inside Humidity', 'Tunnel Temperature', 'Outside Temperature', 'Vent. Mode', 'Vent Level', 'Vent Level CFM', 'Status', and 'Cycle Time'.

House	1	2	3	4
House 1	Full House Day 66	Full House Day 88	Full House Day 88	Full House Day 88
House 2				
House 3	Time 12:24	12:07	12:25	12:12
House 4	Average Temperature 24.5 C°	26.1 C°	26.2 C°	24.6 C°
	Static Pressure 0	0	0	0
	Inside Humidity ---	---	---	---
	Tunnel Temperature 24.5 C°	26.1 C°	26.2 C°	24.5 C°
	Outside Temperature ---	---	---	---
	Vent. Mode Minimum Vent.	Minimum Vent.	Minimum Vent.	Minimum Vent.
	Vent Level 1130	1130	1130	1130
	Vent Level CFM 0	0	0	0
	Status Off	Off	Off	Off
	Cycle Time 0	0	0	0

- Click on **House #** to go to the Platinum Touch functions.
- Click on  to configure [RotemNet Web functionality](#).
- Click on  **Farm Owner** to configure the [user definitions](#).
- Click on  to view the [battery status](#).
- Click on  to view the connection to controllers.

5.1 RotemNet Web Functionality

The following section describes the RotemNet Web functions.



- Farm Settings Tab
- House Scan Tab
- About Tab

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

5.1.1 FARM SETTINGS TAB

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

5.1.1.1 Farm Settings

Use this screen to define functions related to Communicator 2.0'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 name appears on your screen.
- Farm Type: Poultry or Pigs. **Make sure that the definition matches the Communicator 2.0 type!**
- Baud rate: This rate must be the same throughout the network.
- Com Port
- Contact information (optional): Munters uses this information 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 what so ever.
- 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 Communicator 2.0 Pig Software, you can name individual rooms.
- Date and Time/Time Zone: Enter the information.
- Click **Save Changes**.
- System Update: Refer to Software Upgrade.

5.1.1.2 Local Users

Farm settings	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	

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.

5.1.1.3 Data Collect

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

- Fill out the form with the required data and click **Save**.

Farm settings Local Users **Data Collect** Activity log

Data Upload Settings Log

▼ Data Upload Settings

Farm name for collect NickDesk

FTP SFTP

FTP Remote Server Details

Host Address

Port Number

Target Folder

User Name

Password

▼ Collect Preferences

Auto Collect

☐ Activate Auto Collect

Activate can be selected only when you select houses

Select Output File Formats: ☐ xml ☐ xmlMTEch ☐ JSON

Auto Collect Intervals (Starting from 24:00) min.

Select Houses

☐ House 1

Save

5.1.1.4 Activity Log

This screen displays the history of events connected to the Communicator 2.0. Under Event, Sub Event, User, and Cmd ID you can select filters to narrow down the results.

Farm settings Local Users Data Collect **Activity log**

Gateway Name From Date To Date Event Sub Event User Cmd ID Refresh

John Smith 07/08/2018 00:00 10/08/2018 00:00

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

5.1.2 HOUSE SCAN TAB

The House Scan screen:

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

House	1	2	3	4	5	6	7
Ping	Passed	Passed	Passed	Passed	Passed	Passed	Passed
Analyze	Passed	Passed	Passed	Passed	Passed	Passed	Passed
Load Controller Configuration	Passed	Passed	Passed	Passed	Passed	Passed	Passed
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"/>

5.1.3 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.

About

Rotem farm admin version 83.0.1.5
Comm-Box version 83.0.1.5
Support ID 526058059

OK

5.2 User Settings

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

User Settings

User Settings

House 1 **User Settings**

House 2 **Display Name**

House 3 Farm Owner

House 4 **User Email Address**

House 5 QA-PIGS@gmail.com

House 6 **Phone Number**

House 7

Language

English

Unit Types

Metric

Temp Units

C

Pressure Units

PASCAL

Wind Speed Units

M/Sec

☐ Activate Stand By Mode After 15 Minutes Of No Activity

☒ Disable Stand By Mode

- 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.

5.3 Software Upgrade

You can upgrade certain software programs from the Web application.

- Platinum Touch software
- Web application
- Communicator 2.0 software

NOTE: *The Communicator 2.0 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 Communicator 2.0 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 Communicator 2.0's USB port.
2. In the web application, click the **Farm Settings** tab. The following screen appears.

The screenshot shows the 'Farm settings' tab selected in a web application. At the top, there are four tabs: 'Farm settings' (active), 'Local Users', 'Data Collect', and 'Activity log'. Below the tabs, a status bar indicates 'The farm is connected to the web' with a 'Disconnect' button. On the right, there is a 'System Update' button. The main form contains the following fields:

- Farm Name:** A text input field containing 'NickDesk'.
- Farm Type:** A dropdown menu with 'Poultry' selected.
- Baud Rate:** A dropdown menu with '9600' selected, accompanied by an 'Edit' icon and a note: '(Attention - Baud rate needs to be modified according to your communication device setup)'.

Figure 30: Farm Settings

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

The screenshot shows the 'ROTE M' System Update interface. At the top right is a '< Go Back' button. The main section is titled 'Update Combox' and displays the following information:

- Current Version:** 1.50.7
- Build:** 100
- Last Update:** 8/9/2018 02:59

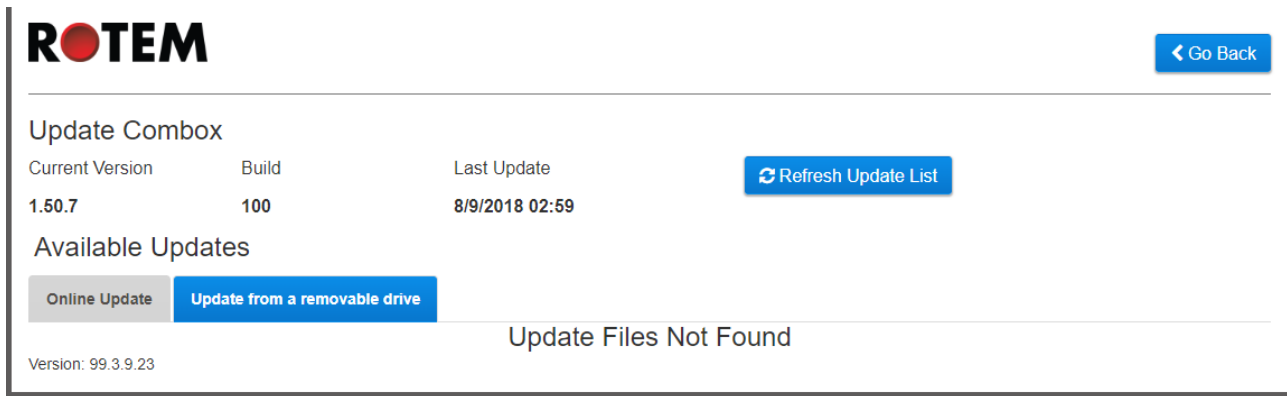
A 'Refresh Update List' button is located to the right of the last update date. Below this, there is a section for 'Available Updates' with two tabs: 'Online Update' and 'Update from a removable drive' (which is active). A table lists the available updates:

Version	Build	Release Date	Drive	Description	Type	
1.50.7	100	29/05/2018	G:\		Reinstall	<button>Reinstall</button>
1.50.8	109	06/08/2018	G:\		Upgrade	<button>Upgrade</button>

At the bottom left, the version '99.3.9.23' is displayed.

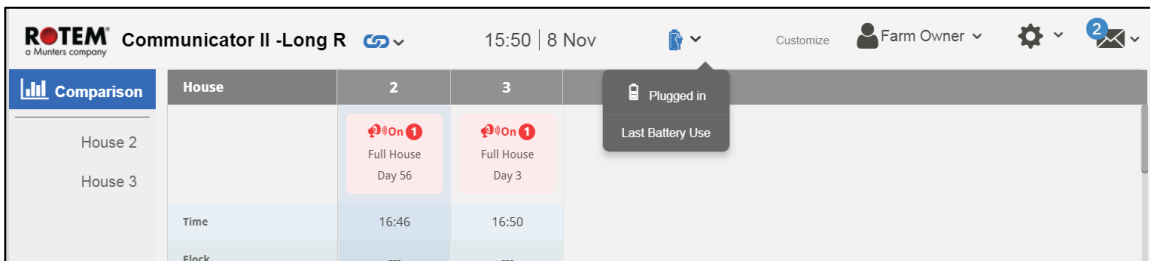
- Users updating online: Click **Online Update** and choose the required software version.
- User updating using a flash drive: Click **Update from a removable drive** and choose the required software version.

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.*



5.4 Battery Status

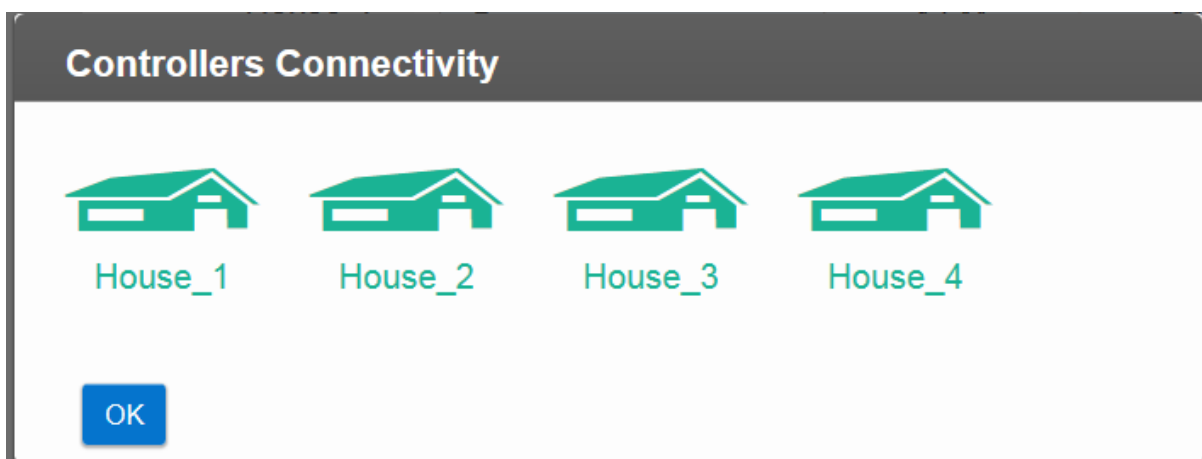
- Click on the battery symbol  to view the Communicator 2.0's battery status.



NOTE: *An alarm is sent when the Battery switch is turned off.*

5.5 Controllers Connectivity

Click on the hyperlink symbol  to view the status of the controller connectivity.



- Green houses: There is an active RS-232/485 connection.
- Red houses: The RS-232/485 connection is down.

6 Alarms

This section describes how to configure the alarms. All other functions are described in the Platinum Touch manual.

- Alarms can be only configured locally. Anyone viewing the Communicator 2.0 screen via the web will not see Alarm System in the Settings icon.
- The alarm settings defined in these screens are general definitions that apply to all alarms unless the alarm has a specific parameter that defines the setting. In that case, the alarm parameter will override the alarm setting defined here.
- **Extremely important:** Set up a [contact list](#) after installing the unit. You must enter the 1st contact's name and email address in order to activate Communicator 2.0.0's alarm functionality! This contact, once entered, cannot be deleted, only edited.

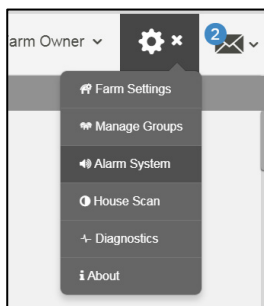
After logging on, the following screen appears:

<div> <div>ROTEM</div> <div>a Munters company</div> </div> <div>Communicator II -Long R</div> <div>15:22 9 Nov</div> <div>Customize</div> <div>Farm Owner</div> <div>2</div>				
Comparison	House	2	3	
House 2		<div> <div>On 1</div> <div>Full House</div> <div>Day 57</div> </div>	<div> <div>On 1</div> <div>Full House</div> <div>Day 4</div> </div>	
House 3				
	Time	16:19	16:23	
	Flock	---	---	
	Average Temperature	---	---	
	Offset	0.0 °C	0.0 °C	
	Static Pressure	0	0	
	CO2	---	---	
	Inside Humidity	---	---	
	Tunnel Temperature	---	---	
	Outside Temperature	---	---	
	Vent. Mode	Minimum Vent.	Minimum Vent.	
	Vent Level	1	1	
	Vent Level CFM	0	0	




- Editing the Settings
- Adding Contacts
- Alarm and Events History
- Digital Inputs
- Testing the Lines
- Responding to Alarms

6.1 Editing the Settings


1. Click the **Settings** icon and select **Alarm System**.




The following screen appears.

Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms
Alarm Settings 			About		Tests
Alarm Report Delay 60 sec. Minimum time that an alarm event continues before sending a report			Connectivity Baud Rate 9600 Com Port COM4		Phone Line Test >
User Gap Time 6 sec. Time delay before a message is sent to next user in the list			Cellular Signal No Signal IMEI 861108034567692		Cellular Modem Test >
Message Repeat Delay 60 min. If no alarm acknowledgement is sent - define time before message transmission restarts			Power Management Battery Battery Charging Last Test 3/24/2019 9:28:00 PM		Com2 Test >
Test Message Time 9:00 Scheduled daily test			Serial ID NICK29012019		Com4 Test >
Country of installation Germany			Hardware Profile Email 1.00.08.00 Push Notification 1.00.08.01 Sms 1.01.08.17 WDT 1.01.08.06 Parser 1.00.08.18 Gateway V1_70 Power Board 1.08.00.00 Communicator-2 1.1.8.52		Create Test Alarm Test >
Generator Ip Address					Send Email Test >
Phone Line Alarm On Send an alarm if telephone line is disconnected					Send Push Notification Test >
Line-Out Volume  10					
Define the volume during a phone call					
Voice Speech Speed  5					
Voice Speech Speed Description					

The screen displays the current alarm settings along with Communicator 2.0 parameter settings.

2. To edit the Alarm Settings click .

Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms
<h2>Alarm Settings</h2> <p>Alarm Report Delay <input type="text" value="60"/> sec. Minimum time that an alarm event continues before sending a report</p> <p>User Gap Time <input type="text" value="6"/> sec. Time delay before a message is sent to next user in the list</p> <p>Message Repeat Delay <input type="text" value="60"/> min. If no alarm acknowledgement is sent - define time before message transmission restarts</p> <p>Test Message Time <input type="text" value="9:00"/> <input type="button" value="v"/> Scheduled daily test</p> <p>Country of installation <input type="text" value="Germany"/> <input type="button" value="v"/></p> <p>Generator Ip Address <input type="text"/></p> <p>Phone Line Alarm <input checked="" type="radio"/> On <input type="radio"/> Off Send an alarm if telephone line is disconnected</p> <p>Line-Out Volume  <input type="range" value="10"/> 10 Define the volume during a phone call</p> <p>Voice Speech Speed <input type="range" value="5"/> 5</p> <p>Voice Speech Speed Description</p> <p><input type="button" value="Save"/></p>			<h2>About</h2> <p>Connectivity Baud Rate 9600 Com Port COM4</p> <p>Cellular Signal No Signal IMEI 861108034567692</p> <p>Power Management Battery Battery Charging Last Test 3/24/2019 9:28:00 PM</p> <p>Serial ID NICK29012019</p> <p>Hardware Profile Email 1.00.08.00 Push Notification 1.00.08.01 Sms 1.01.08.17 WDT 1.01.08.06 Parser 1.00.08.18 Gateway V1_70 Power Board 1.08.00.00 Communicator-2 1.1.8.52</p>		

3. Edit the following parameters:

- **Alarm Report Delay:** To prevent you from being overloaded with insignificant alarms, you can define the amount of time an alarm condition must continue before an alarm is sent.
- **User Gap Time:** Define the delay time (if any) between messages sent to the next person on the list (see the Priority setting).
- **Message Repeat Delay:** Alarms must be acknowledged or messages are resent to the list. Define the amount of time in which acknowledgment must take place before resending messages.
- **Test Message Time:** A test message can be sent daily to ensure that message transmission is operating properly. This parameter sets the time that this message is sent.
- **Country of installation:** Choose from the drop down list.
- **Generator Ip Address** (US customers only): Users having a backup generator connected to the Communicator 2.0 can enter the generator's IP address. Communicator 2.0 will transmit any alarms from the generator.

- **Phone Line alarm:** Enable sending an alarm if the phone line is disconnected.
- **Line-Out Volume:** Define the call volume.

NOTE: *The above two parameters require telephony connectivity to be enabled.*

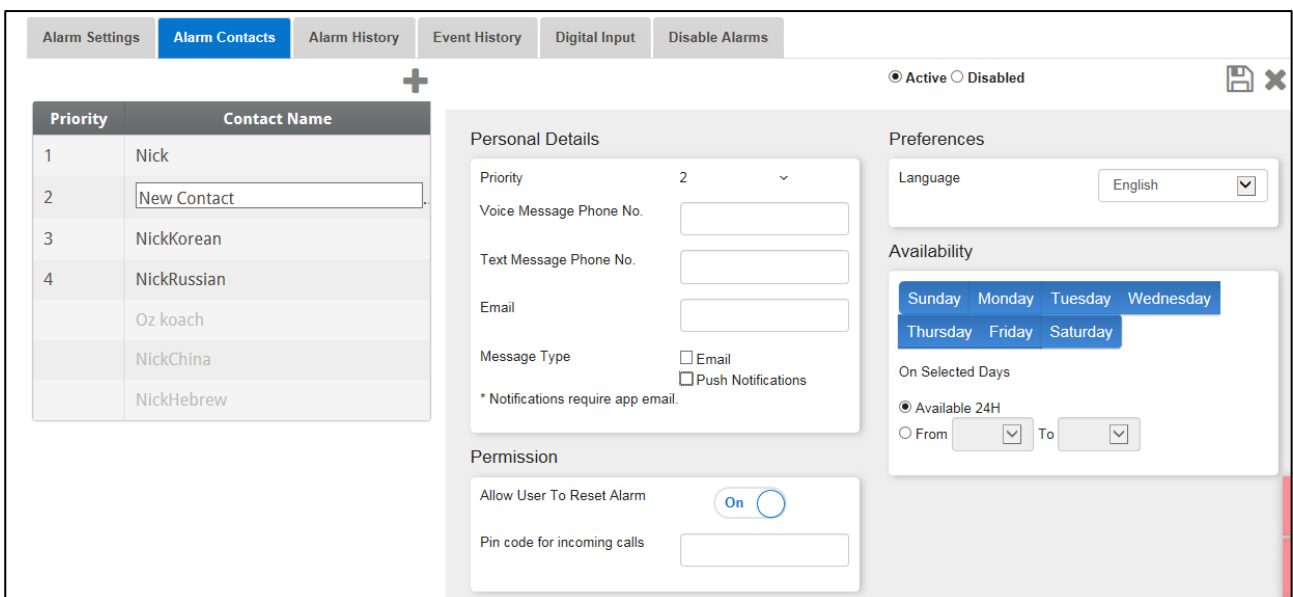
- **Voice Speech Speed:** Define the text-to-speech playback speed.
- **About:** These read-only parameters provide data for service technicians.

4. Click **Save**.

6.2 Adding Contacts

1. Click the Settings icon, select Alarm System, and click the Alarm Contacts tab.

2. Click . The following screen appears



3. Fill in:

- **Contact name**

WARNING! *There must be at least one contact name or the alarms will not function!*

- **Priority:** If there is more than one contact, you can define the order in which the contacts receive messages.
- **Voice Message Number/Text Message Number:**
 - Add a number for an outside line if required.
 - Enter the exit code/country code/area code (if required) and the numbers. Enter numbers only; **do not enter dashes, spaces, or any other character (including a plus (+) sign)**. For example, if the controller is in the US and the contact is in:
 - Harrisburg, Pennsylvania, dial: #1717XXXXXXX
 - London, England, dial: #0114420XXXXXXXX
 - # is the outside line number (if required)
- **Email address**


NOTE: *To receive push notifications, use the email address used to activate each account. You can enter any email address but only the activation address enables push notifications.*

- **Message Type:** Mark the checkbox(es) next to message type(s) that this contact is to receive.

- Call Before Texting: This parameters enables transmitting a telephone call immediately before a text message is sent (to help ensure that you are aware that alarm is about to be sent).
- **Language:** Select the language from the drop down list.
- **Availability:**
 - Select the days on which messages are sent to the contact.
 - Define the hours in which messages are sent to the contact.
- **Permission:**
 - Allow User to Reset Alarm: Select On/Off.
 - Pin code for incoming calls (optional): The Pin code provides a second level of security to the alarm system. The first level of security is the contact list; only these numbers can interact with the Communicator 2.0. If a pin code is added, only someone having the code can reset the alarms, even when calling from an authorized phone number.

4. Click **Save** .

5. Other functions

- **Active/Disabled:** If you want to stop sending messages to a contact but do not want to delete the contact, select Disabled.
- **Delete** a contact: Click .

NOTE: Click on an existing contact name to edit the person's settings

6.3 Alarm and Events History

- Click Alarms History to view a view a list of alarms and information about each alarm.
- Click Events Log to view a list of events connected to the Communicator 2.0.

Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms	
Refresh						
Alarm Code	Alarm Message	Alarm Date	Alarm Controller Date	Handled By Controller	Handled By Operator	Disabled Time
164	Battery Failure	07/03/2019 11:59:39	07/03/2019 11:59:39	---	✓	07/03/2019 12:00:00
164	Battery Failure	07/03/2019 11:53:03	07/03/2019 11:53:03	---	✓	07/03/2019 11:53:03
1	Low Temperature	07/03/2019 11:52:59	07/03/2019 11:52:59	---	✓	07/03/2019 11:52:59
164	Battery Failure	07/03/2019 11:50:26	07/03/2019 11:50:26	---	✓	07/03/2019 11:50:26
1	Low Temperature	07/03/2019 09:42:57	07/03/2019 09:42:57	---	✓	07/03/2019 11:50:26
1	Low Temperature	07/03/2019 06:37:57	07/03/2019 06:37:57	✓	---	07/03/2019 08:00:00
164	Battery Failure	06/03/2019 21:45:27	06/03/2019 21:45:27	---	✓	06/03/2019 21:45:27
164	Battery Failure	06/03/2019 21:44:26	06/03/2019 21:44:26	---	✓	06/03/2019 21:44:26
164	Battery Failure	06/03/2019 20:32:04	06/03/2019 20:32:04	---	✓	06/03/2019 20:32:04
164	Battery Failure	06/03/2019 20:30:34	06/03/2019 20:30:34	---	✓	06/03/2019 20:30:34
164	Battery Failure	06/03/2019 18:27:24	06/03/2019 18:27:24	---	✓	06/03/2019 18:27:24

6.4 Digital Inputs

Communicator 2.0 supports an eight dry contact digital input card (found in the External Box) that can be programmed as normally open / normally closed input. These inputs can be connected to a wide variety of sensors such as generator operation, magnetic door or window, thermostat, etc.

Wire the devices to the external box.

1. Click the Settings icon, select Alarm System, and click the Digital Input tab.

Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms
DI Number	Text Message	Notification Delay (Sec.)	NC	Allow To Reset	Active
1	<input type="text" value="Door Open"/>	<input type="text" value="60"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="text" value="Not Defined"/>	<input type="text" value="10"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Fill in the following fields:

- Text message: Enter the text to be sent to the contact(s).
- Notification delay: Minimum time required to pass before a message is sent.
- NC/NO: Checking this box means that the contact is Normally Closed.
 - NC means "Normally Closed". If there is a change from the usual state (device opens), an alarm occurs.
 - NO means normally open. If there is a change from the usual state (device closes), an alarm occurs.
- Allow to Reset:
 - When this function is not checked, Communicator 2.0 sends a message to every contact (in the order given in the priority list) when an alarm is generated.
 - When checked, Communicator 2.0 sends a message to the first person in the priority list. If that person acknowledges the message, no further messages are sent. If the person, does not acknowledge the message, Communicator 2.0 repeats the process and sends a message to the second person on the list.
- Active: When checked, the alarm function for that digital input is enabled.

6.5 Disable Alarms

To disable an alarm, click the corresponding radio box.

Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms
Alarm Type					Is Disabled
Low Temperature					<input type="checkbox"/>
High Temperature					<input type="checkbox"/>
Sensor Low Temperature					<input checked="" type="checkbox"/>
Sensor High Temperature					<input checked="" type="checkbox"/>
Emergency Low Temperature					<input type="checkbox"/>
Emergency High Temperature					<input type="checkbox"/>
Circuit Breaker High Temperature					<input type="checkbox"/>
Egg Room Low Temperature					<input type="checkbox"/>
Egg Room High Temperature					<input type="checkbox"/>
Temp Sensor Out of Range					<input checked="" type="checkbox"/>

NOTE All alarms are listed. However, there are alarms which cannot be disabled due to their importance.

6.6 Testing the Communicator 2.0

- To test a communication function, on the Alarm Settings screen click:
 - Phone Line Test
 - Cellular Modem Test
 - COM Port(s) Test
 - Create Test Alarm
 - Send Email
 - Send Push Notifications

NOTE Testing can also be done via the Diagnostics screen (page 45).

6.7 Responding to Alarms

Upon receiving an alarm message (voice or SMS), you can respond to the message. The following sections detail how to respond to these messages.

- Responding to an Audio Message
- Responding to a Text Message

6.7.1 RESPONDING TO AN AUDIO MESSAGE

Communicator 2.0 sends voice messages to the designated people on the contact list. This section details the procedure to follow when an audio alarm is received.

NOTE: *This service is provided by the Communicator 2.0 ONLY if the contact is properly defined with contacts and the "VOICE" service selected per contact.*

Communicator only broadcasts its alarm message AFTER someone speaks into the phone. Any word or sound is sufficient.

- Receiving the Message
- Responding to the Alarm Message

6.7.1.1 Receiving the Message

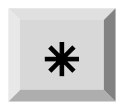
The following illustrates the sequence of **ALARM messages**:

"Good <Morning / Afternoon / Evening> farm <#> active alarm.
Please, press 1 to listen."

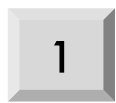


"House <#> has <#> alarm message<s>."

- Alarm messages for the first house are played and then the following options are available:



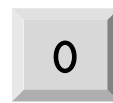
Acknowledge



Replay house message



Play next house
message



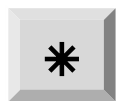
End call



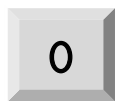
- Enter password (if acknowledging for the first time this call) and press *.
- "Please wait... Reset for house <#> successful. <Next Message / Goodbye>."
- When you hear "Please wait" press * to access the ALARM OPTIONS MENU.

6.7.1.2 Responding to the Alarm Message

- System reports alarm and then offers the following options:



Disable alarms



Return to house
messages



Replay alarm message



End call

NOTE: *Disabling alarms disables them until 12:00 PM the following day.*

- "Disable <confirmed / failed>!" message is repeated and returns to **House Alarm Messages**

NOTE: *If at any time an incorrect key is pressed or if nothing is pressed, the system repeats itself three times and then ends the call.*

6.7.2 RESPONDING TO A TEXT MESSAGE

This section details how to respond to a text message sent from Communicator 2.0 to a mobile phone. The response can reset a siren, an alarm, or acknowledge the messages.

- Resetting the Siren

- Resetting the Alarm
- Acknowledging a Message

6.7.2.1 Resetting the Siren

NOTE: After typing the text message, press the 'Send' button to send it to the Communicator 2.0.

In the procedures below, the **highlighted text** shows the SMS text to be sent.

- **Resetting the Siren of One House**

IRX > 'Send SMS' to the Communicator 2.0 cell phone number.

! = Start of message

R = Reset

X = Represents house number (can be any positive number from 1-64)

- **Resetting the Siren of Several Houses**

IRX#X#X > 'Send SMS' to the Communicator 2.0 cell phone number

! = Start of message

R = Reset

X = Represents house number (can be any positive number from 1-64)

= Sign separates between every house number

- **Resetting the Siren for All Houses**

IRALL > 'Send' to the Communicator 2.0 cell phone number

! = Start of message

R = Reset

ALL = Can be typed both in capital letters or small letters.

6.7.2.2 Resetting the Alarm

To reset all the alarms, send the following text message:

IC > 'Send' to the Communicator 2.0 cell phone number

! = Start of message

C = Communicator

6.7.2.3 Acknowledging a Message

Communicator 2.0 continues to send alarms until an acknowledgement is sent.

- **Requesting a Response for Every Sent Text Message**

IAON > 'Send' to the Communicator cell phone number

! = Start of message

A = Acknowledgement

- **Canceling a Response for Every Sent Text Message**

IAOFF > 'Send' to the Communicator cell phone number

! = Start of message

A = Acknowledgement

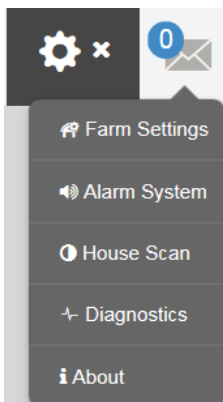
7 Diagnostics

- Tests
- LEDs

7.1 Tests

Communicator 2.0 includes a basic diagnostics package.

- On the Activation screen click **Diagnostics**.



The following screen appears.

ROTEM[®]
Device Details

Diagnostics

Go Back

Serial Number

NICK29012019

Version

1.50.8.131

Diagnostic Tests

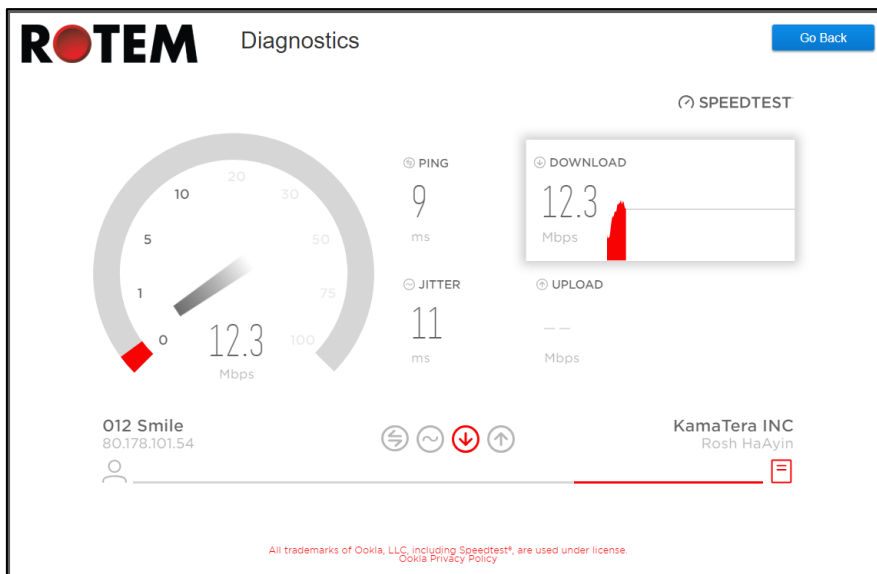
Test Name	Test Instruction		Pass	Fail
Internet Connection	<div>• On the Comm-Box, connect the LAN cable to LAN Port 1.</div> <div>• Click Run Test.</div> <div>• Repeat for LAN Port 2.</div>	Run Test	✓	
Connection To Rotem WEB System	<div>• On the Comm-Box, connect the LAN cable to one of the LAN ports.</div> <div>• Click Run Test.</div>	Run Test	✓	
Latest Image Version Installed	<div>• This test verifies that the last released image is installed in this Comm-Box</div> <div>• This test is performed automatically</div>	Run Test	✓	
Total Results:			3	

Alarm System Tests





Speed Test





- Use this screen and the information it supplies when speaking with technical support.
- Alarm System Tests enables the following tests:

- Phone Line Test
- Cellular Modem Test
- COM Port(s) Test
- Create Test Alarm
- Send Email
- Send Push Notifications
- The Diagnostics page also includes a speed test:



7.2 LEDs

LED	Description	Diagnosis
	Power LED. Power is applied.	Should be green
	Connectivity to RLINK One	<ul style="list-style-type: none"> ○ No light: No modem installed ○ Red: Modem installed but no connectivity ○ Green LED: OK
	LAN signal	<ul style="list-style-type: none"> ○ No light: No modem installed ○ Red: Modem installed but no connectivity to house ○ Green Blinking LED: OK
	Cell phone modem	<ul style="list-style-type: none"> ○ No light: No modem installed ○ Red: Modem installed but no connectivity ○ Green: OK

LED	Description	Diagnosis
	Telephone line	<ul style="list-style-type: none"> ○ No light: No modem installed ○ Red: Modem installed but no connectivity ○ Green: OK
	Web connectivity: Tests connection to RotemNet Web application.	<ul style="list-style-type: none"> ○ No light: No physical connection ○ Red: No connectivity ○ Green: OK
	Active alarm	<ul style="list-style-type: none"> ○ Off: No active alarm(s) ○ On: Active alarm
	Battery	<ul style="list-style-type: none"> ○ Red: Battery is disconnected ○ Red Blinking: Battery is not charging (consult with dealer immediately) ○ Green Blinking LED: Battery is charging ○ Green: Battery is charged

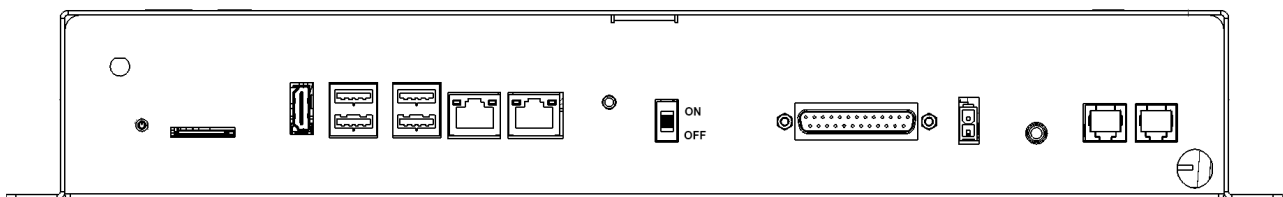
8 Appendix A: Changing the Battery

Munters recommends installing a new battery every two years.

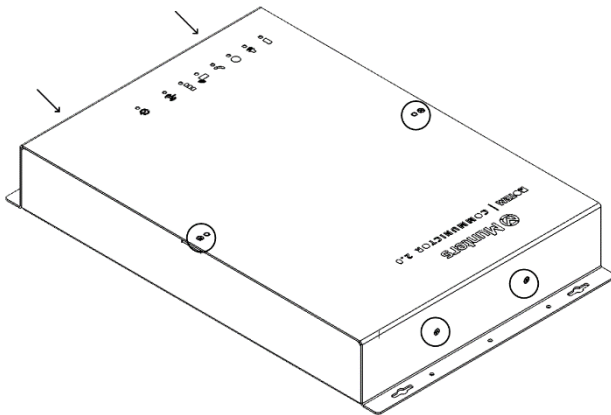
- Change the battery between flocks or herds.
- Order a new battery from your dealer.

To replace the battery:

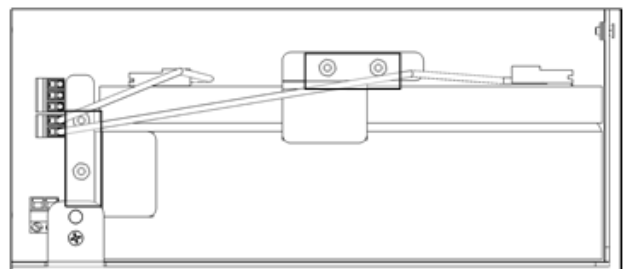
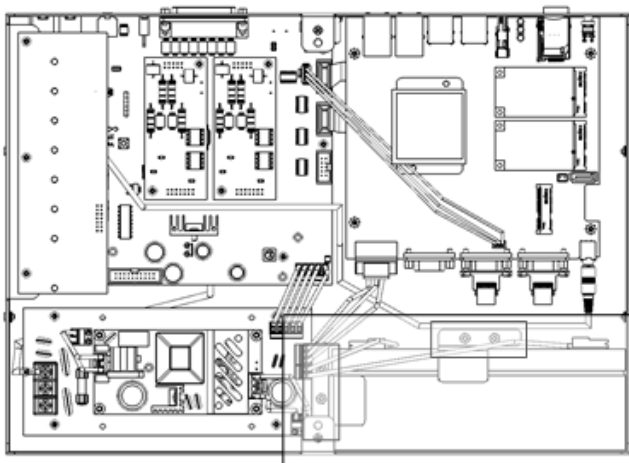
1. Disconnect the AC power.
2. On the rear panel, switch the battery to Off.



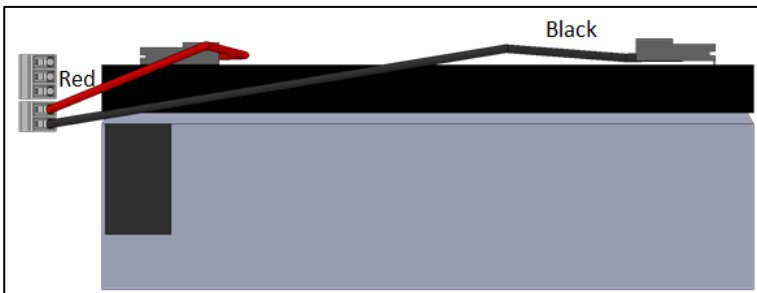
3. Disconnect all cables connected to the Communicator 2.
4. If the unit is mounted on a wall, take it down and place it on a table.
5. Remove the six screws indicated and lift the Communicator 2's top.



6. Using a box spanner, remove the four screws indicated (and their clamps).



7. Remove the red and black cables from the battery (in this order).



8. Remove the battery and put the new battery in place.

9. Reconnect the cables.

10. Secure the battery in place.

11. Place the cover in place and insert the screws.

12. Place the unit on the wall (optional) and reconnect the cables.

13. Turn on the battery switch, apply AC power, and verify that the Power LED is lit.

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 Communicator 2.0, (for example antennas, 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. A full list of contact details can be found on the back page of this manual.

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