Installation and User Manual

CommBox Plus for GreenField App



CommBox Plus for GreenField App

Internet Access to Controllers



P/N: 116922

CommBox Plus for GreenField App

Installation and User Manual

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

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1 Introduction

1.1 Disclaimer

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1.2 Introduction

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

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

1.3 Notes

Date of release: July 2019

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

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2 Introduction to the CommBox Plus

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



Figure 1: CommBox Plus/Controller Block Diagram

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

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

2.1 Supported Devices

- The following product versions support the Greenfield App application:
 - Greenfield Version 3.08.09 and above.
 - Greenfield Eco Version 9.08.09 and above.

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

2.2 Junction Box

Connecting a CommBox Plus directly to a controller requires a Junction Box. Refer to Connecting the CommBox Plus to a Controller, page 15.

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

2.3 What Comes in the Package

CommBox Plus	
Junction Box	
120Ω resistor for termination.	
Antenna	
12 VDC Power Supply	
24 VDC Power Supply	

Mounting Pieces				
○ 4 screws				
 4 mounting bolts 				
 1 mounting bracket 				

2.4 Block Diagrams



Figure 2: CommBox Plus Block Diagram/Controller & 24 VDC PS



Figure 3: CommBox Plus Block Diagram/Screen & 12 VDC PS

3 Hardware Installation

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

- Precautions
- CommBox Plus Ports
- Mounting the CommBox Plus
- Connecting the CommBox Plus to the Internet
- SIM Card Connectivity
- Connecting the CommBox Plus to Peripheral Devices
- Connecting the CommBox Plus to a Controller or RLink
- CommBox Plus to Junction Box Wiring
- Wiring Topologies
- Termination

NOTE No software installation is required.

3.1 Precautions

Observe the following precautions when using your unit.

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

3.2 CommBox Plus Ports



Figure 4: Front and Rear View

3.3 Mounting the CommBox Plus

1. Using the screws provided, place the bracket on a wall.



Figure 5: Bracket Screws

2. On the back of the CommBox Plus, screw in the mounting screws.



Figure 6: Mounting Screws

3. Place the unit on the mounting bracket.

3.4 Connecting the CommBox Plus to the Internet

• Connect the CommBox Plus to your Internet connection/modem.



Figure 7: Internet Connection

3.5 SIM Card Connectivity

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

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

3.6 Connecting the CommBox Plus to Peripheral Devices

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

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



Figure 8: Peripheral Devices



Figure 9: Peripheral Devices (Screen)

3.7 Connecting the CommBox Plus to a Controller or RLink

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

- Controller to Junction Box Wiring
- RLINK One to Junction Box Wiring

WARNING! Disconnect the power before beginning!WARNING! Only an authorized electrical technician may perform this procedure!

3.7.1 CONTROLLER TO JUNCTION BOX WIRING

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





Figure 10: Green Field RS-485 Wiring

• The cable between the controller and the Junction Box should be a 3-wire twisted shielded cable (22 or 24 AWG).

- Connect the wiring as follows:
 - COM to COM
 - CommBox Plus A port is connected to Controller's A port.
 - The CommBox Plus B port is connected to Controller's B port.
 - The final controller in any chain or branch requires a 120-ohm terminator.
- Connect the cable shield wire to the controller ground strip.

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

3.7.2 RLINK ONE TO JUNCTION BOX WIRING



Figure 11: RLINK One RS-485 Wiring

- The cable between the external connection box and the RLINK One should be a 3-wire twisted shielded cable (22 or 24 AWG).
- Connect the wiring as follows:
 - COM to COM
 - CommBox Plus A port is connected to Controller's A port.
 - The CommBox Plus B port is connected to Controller's B port.
- The final controller in any chain or branch requires a 120-ohm terminator. Refer to Termination, page 19.
- Connect the cable shield wire to the controller ground strip.
- Connect the wiring according to the following table:

Port	Color Wire	Port	Color Wire
СОМ	Brown	+	Red
ТХ	Green	-	Black
RX	White	СОМ	Shield wire

3.8 CommBox Plus to Junction Box Wiring

Figure 12 illustrates the wiring of a Junction Box supplied to the customer. The Junction Box should come wired to both the 24 DC power supply and to the CommBox Plus cable. Refer to Figure 12 if you need to rewire the unit.

• Plug the cable into the COM 1 port (Figure 13).



Figure 12: Junction Box to COM Port/Power Supply Wiring

I UDLE I

Number	Wire Color
1	Black
2	Green
3	White



Figure 13: Junction Box to COM Port Cable

3.9 Wiring Topologies

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



Figure 16: T-Junction (not permitted)

3.10 Termination

Termination, installing 120-ohm termination resistors at the beginning and end units of each chain of CommBox Plus 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 or the terminal controller.

Termination is recommended when the distance between the Junction Box and the final controller is more than 100 meters/330 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 20, page 20), the resistor is installed in the controller). Termination may not be required in shorter installations.

- Termination Topologies
- Termination Wiring

3.10.1 TERMINATION TOPOLOGIES



Figure 17: Topology 1: CommBox Plus/Controller Termination



Figure 18: Topology 2: Controller Termination



Figure 19: RLink One and House Termination

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

3.10.2 TERMINATION WIRING

• CommBox Plus: Install the termination resistor in the Junction Box.



Figure 20: Junction Termination

4 Technical Data

- CommBox Plus Specifications
- Junction Box Specifications

4.1 CommBox Plus Specifications

Parameter	Detail				
Power Supply					
Power Consumption	 12V DC +/-20% Power Adapter: SC 12VDC, 5A/60W (100 ~ 240V) 				
CAUTION Unit shuld Limited Power Source	l be powered by Limited Energy Source per IEC 61010-1 or ce per IEC 60950-1 or IEC 62368-1				
Temperature Range					
Operating Temperature Range	-20 [°] to +65 [°] C / -4 [°] to 150 [°] F				
Storage Temperature Range	15 [°] to +35 [°] C / 59 [°] to 95 [°] F				
Ethernet					
LAN	Two (2) 10/100/1000/ Mbps Realtek 8111F ports				
SIM Card Requirements					
Cellphone SIM Card	4G (LTE CAT1)				
Cell Package	5 GB minimum				
Environmental Specifica	ations				
 Indoor use only Altitude: -400 Relative Humic 	/ m to 2000 m lity: 5 – 95%				
 Main supply volume 	ltage fluctuation up to 5%				
 Overvoltage ca 	tegory: OVCII				
Pollution degree	ee: PD2				
Ingress Protection: IPXO					
Housing					
Metal Box Dimensions (W x H x D)	136 x 126 x 39 mm (without wall-mount bracket)				
Weight	1.5 Kg				

Parameter	Detail					
Input/Output:						
СОММ	Two RS-232 Ports					
USB One USB 3.0 port						
	Three USB 2.0 ports					
Certification						

4.2 Junction Box Specifications

Power Supply						
Junction Box Power Input	24 VDC, 30 mA					
CAUTION Unit shuld be powered by Limited Energy Source per IEC 61010-1 or Limited Power Source per IEC 60950-1 or IEC 62368-1						
Temperature Range						
Operating Temperature Range	0 [°] to +45 [°] C / 32 [°] to 113 [°] F					
Storage Temperature Range -10° to +70° C / 14° to 158° F						
Environmental Specifications						
Indoor use only						
• Altitude: -400 m to 2000 m						
Relative Humidity: 0 – 90%						
Main supply voltage fluctuation up to 5%						
Overvoltage category: OVCII	Overvoltage category: OVCII					
Pollution degree: PD2						
Ingress Protection: IP50						

5 Group Management

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

- create a group
- define user rights
- What is a Group
- Activating the Farm
- Invite Users
- RotemNet Web

5.1 What is a Group

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



Figure 21: Group Example

As an example, an account manager has sent up two Groups and wants to add three different users to his account (Figure 22).

- 1. User 1 is assigned access rights to Farm 1.
- 2. User 2 is assigned access rights to Farm 2.
- 3. User 3 is assigned access rights to Farm 1 and Farm 2.

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



Figure 22: User Assignment

Any combination is possible.

5.2 Activating the Farm

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

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

	House Number	House Name	House Number	House Name
Farm Activation	1	House 1	33	House 33
anguage	2	House 2	34	House 34
English v	3	House 3	35	House 35
arm Name	4	House 4	36	House 36
est	5	House 5	37	House 37
Irm Type	6	House 6	38	House 38
Poulty	7	House 7	39	House 39
Intigation A (Altention - Baud rate needs to be modified according to your communication device setup)	8	House 8	40	House 40
600 Restart is required for modifications to take effect	9	House 9	41	House 41
Edit	10	House 10	42	House 42
OM1 (Attention - Com Port needs to be modified according to your communication device setup) Restart is required for modifications to take effect	11	House 11	43	House 43
ur contact info for support	12	House 12	44	House 44
er Email Address	13	House 13	45	House 45
	14	House 14	46	House 46
hone Number	15	House 15	47	House 47
derace	16	House 16	48	House 48
201622				

- 2. Fill in the fields:
 - Name: Type in the farm name.
 - Farm Type: Choose the type from the drop-down list.

- **Baud rate**: This rate must be the same throughout the network. Munters recommends
 - using the default baud rate, 9600, for wired connections.
 - setting the baud rate at 19200 for RLINK One connections.
- The Com Port must be Com Port 1.
- Contact info: This is optional information which enables Munters to contact you if needed.

NOTE You can edit these settings in RotemNet Web.

- Mark the checkboxes of the houses to be scanned. Mark at least one house. As an option, the house names can be edited.
- 3. Click Activate. A pop up appears asking if you want to scan your farm houses.



water, ec/pH fert status' > A Cooling 45 45 Open % Min % Prg % Max % Flow L/H PH Ser 30 90.0 РН 7.0 РН 45 135.0 L Temperat 111.0 37 N/A - Actual - Target ∧/A°

Figure 24: Green Field Dashboard

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

⊘ Munt	ers	Test	G				
House 1	Farm settings	External Devices	Push Notifications	Local Users	Data Collect	Activity log	
	The farm is not cor	nnected to the web	Connect				Software Update
	Farm Name					_	
	Test						
	Farm Type						
	Irrigation			•			
	Baud Rate						
	9600	Edit (Attention Restart	on - Baud rate needs to be modifi is required for modifications to ta	ed according to your c te effect	ommunication device set	up)	
	Com Port	Edit					
	COM1	(Attention Restart	on - Com Port needs to be modifi is required for modifications to ta	ed according to your co te effect	ommunication device set	up)	
	Your contact info	for support					
	User Email Addre	ss					
	Phone Number						
	Address						
				10			
	Date And Time						
	Thursday, Decemb	oer 23, 2021 12:48 AM	Change Date And Ti	ne			
	Time zone						
	(UTC-08:00) Pa	cific Time (US & Canad	ia)	•			
	Number Of House	es To Be Scanned 🖋	Edit				U

Figure 25: Initial Farm Settings Screen

5. Click Connect. The following screen appears.

ROTEM [®] RotemNet Web	
Selected Region	
AMERICA	~
Language	
English	~
User Email Address	
My RotemNetWeb User Email address	
Password	
Login	DEMO
Not registered yet ? <u>Sign Up Now</u> Forgot Password	

Figure 26: Initial Sign In Form

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

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

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

arm Web Connection	
1 User Login	2 Attach A Farm To A Group
Create a new user	
User Name	
My New RotemNetWeb User Name	
User Email Address	
Password	
Confirm Password	
Cancel Create a user	
	Close

Figure 27: Create a New User Screen

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

Farm Web Connection	
1 User Login	2 Attach A Farm To A Group
Create a new user	
User Name	
Customer 1	
User Email Address	
testcommbox201@gmail.com	
Password	
Confirm Password	
Cancel Create a user	
	Close

Figure 28: Create a User (Example)

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

Farm	Web Connection	
1 l	Jser Login	2 Attach A Farm To A Group
Atta	ch This Farm To	A Farms Group
What I A virtua Note:E	s Farm's Group ? al unit that combines farms tog Each farm must be attached to	ether and enables to manage multiple farms easily. a farm group even if the group consist one farm only .
A farm Please	can be attached to more then select one or more groups fro	one group. m your list of groups below to be attached to your new farm
or a ne	w group. Group Name	Owner
	New Farm Group Name	Customer 1
Add	i a Group	

Figure 29: Group Screen (1)

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

arm	Web Connection	
1	Jser Login	2 Attach A Farm To A Group
Atta	ch This Farm To	A Farms Group
What I A virtua Note:E A farm	s Farm's Group ? al unit that combines farms to Each farm must be attached to can be attached to more the	gether and enables to manage multiple farms easily. o a farm group even if the group consist one farm only . n one group.
Please or a ne	e select one or more groups fr w group.	om your list of groups below to be attached to your new farm
	Group Name	Owner
	Group 1	Customer 1
Ado	t a Group	
		Close Attach To Group

Figure 30: Farm Attached to Group

NOTE To create new groups, click Add a Group.

5.3 Invite Users

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

- Sending an Invitation
- Defining User Privileges

5.3.1 SENDING AN INVITATION

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

ROTEM® RotemNet Web
Selected Region
AMERICA
Language
English
User Email Address
My RotemNetWeb User Email address
Password
Login
Not registered yet ? <u>Sign Up Now</u> Forgot Password

- b. Click Sign Up Now.
- c. Fill out the fields and click Sign Up.
- d. Proceed to Step 2.

2. Disconnect the computer screen from the CommBox Plus and reconnect it to a computer (alternatively use a different computer).

3. Sign in (using the email address and password that you used during activation) to the CommBox Plus via the web at https://www.rotemnetweb.com/.

⊗ Mun	ters	My Farm Groups
V 🍄 Group 1	Owner: Customer 1	

Figure 31: My Farm Groups

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

⊗ Munters 👘	My Farm Groups			Customer 1 🗸	\$ ~
Group: Group 1 Owner: Customer	· 1				
Details Users Sub Groups Farms					
Active Invited Removed					
			✓Save		
Email	Name	Access Type			
testcommbox201@gmail.com	Customer 1	Admin	~		

Figure 32: Active Users Screen

5. Click Invited.

⊘ Munters	My Farm Group	S				Customer 1 🗸	\$ ~
Group: Group 1 Owner: C	ustomer 1						
Details Users Sub Groups	Farms						
Active Invited Removed							
					+Add < Save		
Email	Name	Access Type	Status	Sent On			

Figure 33: Add a New User Screen

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

Dear Customer ,
User name: ben.
You are welcome to connect to account name: Group 1.
Please <u>accept this account</u> in the RotemNetWeb application .
Once you accept the connection you will be able to view/manage the account.
Yours, RotemNetWeb team

Figure 34: Email Invitation (Example)

5.3.2 DEFINING USER PRIVILEGES

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

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

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

5.4 Local Log In

In the event that:

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

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

	RotemNet Web	
User N	ame	
Farm O	vner	
Passwo	ord	
Farm N	lame	
Rotem		
Langua	ige	
English		,

Figure 35: Local Log In

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

NOTE The user name cannot be changed. You can change the password after logging in. NOTE After logging in locally, you will need to log in to the Web.

6 RotemNet Web

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

6.1 Sign In

There are two ways to sign in:

- Standard Login
- Private Server

6.1.1 STANDARD LOGIN

1. Go to RotemNetWeb.Com.

ROTEM® RotemNet Web	0
Selected Region	
AMERICA	~
Language	
English	~
User Email Address	
My RotemNetWeb User Email address	
Password	
Login	DEMO
Not registered yet ? <u>Sign Up Now</u> Forgot Password	

Figure 36: Standard Sign In

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

ROTEM RotemNet Web Selected Region AMERICA ASIA AMERICA CHINA	~
EUROPE AFRICA AUSTRALIA PRIVATE	
Password	
Login	DEMO
Not registered yet ? <u>Sign Up Now</u> Forgot Password	

Figure 37: Region Selection

3. Enter the email address and password, and click Login. After signing in, the <u>My</u> <u>Farm Groups</u> screen appears.

6.1.2 PRIVATE SERVER

If your farm is connected to a private server system:

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

ROTEM [®] RotemNet Web	
Selected Region	
PRIVATE	~
Navigate to your private server	
example: https://www.myserver.com	Navigate
Language	
English	~
User Email Address	
My RotemNetWeb User Email address	
Password	
Login	DEMO
Not registered yet ? <u>Sign Up Now</u> Forgot Password	

Figure 38: Private Server Sign In

- 2. Enter the server information.
- NOTE Dealers provide this information, if relevant.
 - After signing in, the <u>My Farm Groups</u> screen appears:

6.2 My Farm Groups

Click the My Farm Groups to access all groups to which you are participating in, in any capacity.



Figure 39: User Group Access

Munters My Farm Groups	🛔 Ben Gmail 🗸 🔹 🔆
✓ ♥ EcoMesh_ScaleTest Owner: Nick	
TestOpticFlock	
✓ Irrigation Demo Owner: Eran	
Irrigation Demo ℤ	
🗸 🌞 Test 55 🛛 Owner: Ben Gmail	
Test-CN-Box2	
🗸 🌞 Test5 Ovmer: Ben Gmail	
€ Test-CN-Box2	

Figure 40: My Groups Screen

The screen shows:

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

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

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

⊘ Munters	My Farm Groups	irrigation	× 📰 🔳	Ben Gmail 🗸	\$ ~
V VIIIgation Demo Owner: Eran					

Figure 41: Search Function

Munters My Farm Groups		Ben Gmail 🗸	\$ ~
✓ ♦ EcoMesh_ScaleTest Owner: Nick			
TestOpticFlock			
✓ ♀ Irrigation Demo Owner: Eran			
Irrigation Demo			
✓ Iest 55 Owner: Ben Gmail			
Test-CN-Box2			
🗸 🔅 Tëst5 Ovmer: Ben Gmail			
Test-CN-Box2			

Figure 42: Grid View

\odot	Mun	ters	My Far	m Groups	Q		Ben Gmail 🗸	‡ ~
~	EcoMesh	_ScaleTest ov	wner: Nick					
	Farm Name	S/N	Support ID					
	TestOpticFlock	TSBT02021617	586052052	9				
~	Irrigation I	Demo Owner: E	iran .					
	Farm Name	S/N	Support ID					
	Irrigation Demo	cncb00000012	1357170999 🌈	•				
~	🔅 Test 55	Owner: Ben Gmail						
	Farm Name	S/N	Support ID					
	Test-CN-Box2	TEST21022023	427081999 😭					

Figure 43: List View

- Click any icon to go to the group's farms (refer to My Farm Groups, page 32).
- Click the settings icon 🔅 to view and manage the group's users and farms (Manage Groups, page 36).

6.2.1 DETAILS (OPTIONAL)

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

⊘ Munters	My Farm Groups		Ben Gmail 🗸	\$ ~
Group: Irrigation Demo Owner: Eran Details Users Sub Groups	Farms			•
Group Name Irrigation Demo Comments	Group Owner Eran	Created On 04/10/2021 13:27		
			//	

Figure 44: Details Screen

6.2.2 FARMS

The Farms screen lists the farms in this group.

Munters My Farm Groups	Ben Gmail 🗸	\$ ~
Group: Irrigation Demo Owner: Eran Alor Details Users Sub Groups Farms		•
Farm Name		
Irrigation Demo		â

Figure 45: List of Farms Screen

6.3 Manage Groups

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



Figure 46: Manage Groups Screen

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

Add New	Group	
Group Name		
Password		
Confirm Pass	word	
	Cancel	Create Group

Figure 47: Add New Group screen

2. After creating the group, add farms to the group. Go to the Farm Settings screen. NOTE Only a farm owner/administrator connected to a farm locally can attach the farm to a group.

≡	Munters Irrigation I	Demo 🕥	\$	~		
hil	Farm settings External Devices	Push Notifications	Local Users	Data Collect	Activity log	
	The farm is connected to the web Disc	onnect Softwar	e Update	Attached Web	Groups	
1	Farm Name			Manage Gro	ups	
	Irrigation Demo			Server	·	
	Farm Type			https://rotemne	tweb.com/	
	Irrigation			Group Name	Owner	
				Irrigation Demo	Eran	

Figure 48: Farm Settings Screen

3. Click Manage Groups and attach the farm to a group (refer to Figure 29: Group Screen (1) page Figure 29).

6.4 User Settings

User Settings

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

The following screen appears.

⊘ Munt	User Settings 🕝		
LIII Comparison	User Settings Display Name		* 🗈
Greenfield	Eran		Change Password
Greenfield Eco	User Email Address		Delete this Web User Account
	CommBox@munters.com		
	Phone Number		
	0525555555		
	Language		
	English	~	
	Units		
	"Celcius, Kg, M3H, Liter"	~	
	Pressure Units		
	BAR	~	
	Wind Speed Units		
	M/Sec	~	

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

6.5 RotemNet Web Functionality

The following section describes the RotemNet Web functions.

	•	House Summary and Comparison
Falli Owner	•	Comparison Screen Appearance
Farm Settings	•	RotemNet Screen Appearance
House Scan	•	Farm Settings Tab
Diagnostica	•	House Scan Tab
Diagnostics		
About		
Log Out		

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

6.5.1 HOUSE SUMMARY AND COMPARISON

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

Munt	ers Irrigatio	on Demo		Customize	Ben Gmail 🗸	\$ ~
LIII Comparison	House	Greenfield	Greenfield Eco			
Greenfield Greenfield Eco		Day	Day			
	Time	17:46	17:47			
	Average Temperature					
	Static Pressure					
	Inside Humidity					
	Tunnel Temperature					

Figure 49: Comparison Houses Screen

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

6.5.2 COMPARISON SCREEN APPEARANCE

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

NOTE Only owners/administrators can perform this function.

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

🔳 🛇 Munter	S Test farm	ശ	
LIII Comparison	House	Ηοι	Farm Owner
			Customize
G House 1			Farm Settings
🥬 House 2		_	• House Scan
	Time		Diagnostics
			About
			Log Out

Figure 50: Customize Feature

2. For each section, select the background color.

	Comparison - Settings	
Status Time Irrigation Fertigation Misting Cooling	Sensors Average Temperature EC Prog. EC Act. pH Prog. pH Act.	Devices Water Main Water Bypass Water Line
Prog Status. Program Set Default Check all Clear all	Outside Temp	Set Default Check all Clear all
You can select 31 more fields to OK Cancel	display	

Figure 51: Comparison Settings Screen

3. The screen displays the background colors.

■ Ø Munters	5 Test farm	<u>۳</u>	\$ ~
III Comparison	Water Prg. Time		
M House 1	Water Act. Time		
(2) House 2	Average Temperature		
42 TIOUGO 2	EC Prog.		
	EC Act.		
	pH Prog.		
	pH Act.		
	Outside Temp		
	Humidity Sensor 1		
	Wind Speed		
	Wind Direction		
	Water Main		

Figure 52: Color Selection Screen

6.5.3 ROTEMNET SCREEN APPEARANCE

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

≡	Munters Irrigation	Demo 🕝	\$	~		1
<u>lılı</u>	Farm settings External Devices	Push Notifications	Local Users	Data Collect	Activity log	
	The farm is connected to the web Dis	connect Softwa	re Update	Attached Web	Groups	
1	Farm Name			Manage Gro	ups	
	Irrigation Demo			Server		
	Farm Type			https://rotemne	tweb.com/	
	Irrigation	•		Group Name	Owner	
				Irrigation Demo	Eran	

Figure 53: Local Connection

Munt	ers	Irrigation Demo						
LIII Comparison	Farm settings	Push Notifications	Data Collect	Activity log	General Settings			
	Farm Name							
Greenfield	Irrigation Demo							
Greenfield Eco	Farm Type							
	Irrigation		~					

Figure 54: Web Connection





Figure 55: Local Connection Settings

Figure 56: Web Connection Settings (administrator)

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



Figure 57: User Group Access

6.5.4 FARM SETTINGS TAB

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

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

6.5.4.1 Farm Settings

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

⊗ Munte	Munters Oren irrigation demo 🖙 🗳											
LIII Comparison	Farm settings Exte	ernal Devices Push Notificat	ions Local Users	Data Collect	Activity log							
GreenField 1 GreenField 2 GreenField ECO3	The farm is connected to I Farm Name Oren irrigation demo Farm Type Irrigation Enable storing history d local device automatical Enable broadcasting we station data to network controllers Comm Port Connection Your contact info for si	the web Disconnect		Software I	Update	Attached Web Groups Server https://rotemnetweb.o Group Name Oren Demo	Manage Groups com/Irrigation_V1/ Owner Oren.Ascebrud					
	House Number	House Name	House Number	House N	lame							
	1	GreenField 1										
	2	GreenField 2										
	3	GreenField ECO3										

Figure 58: Farm Settings Screen

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

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

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

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

6.5.4.2 External Devices

Not applicable to irrigation systems.

6.5.4.3 Push Notifications

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

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

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

≣	⊗ Munter	S Eran A_Irrig	ation 🕝	\$ ~			•		
1	Farm settings	External Devices	Push Notifications	Local Users	Data Collect	Activity log			
	Enable Push Noti	fications					+ Add Save		
	Email		Nam	e					
	eran.alon@munte	ers.com	✓Check OK			Û			

Figure 59: Push Notifications Screen

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

6.5.4.4 Local Users

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

	0	Munter	S Eran	A_Irrig	ation 🕝		\$	~			0
1		Farm settings	External	Devices	Push Notificatio	ons	Local Users	Data	Collect	Activity log	
		User Nar	ne		Password		Assigned To				
		Farm Owner		***		Far	m Owner				
		User 1		***		Use	er 1				
		User 2		***		Use	er 2				
		User 3		***		Use	er 3				
		User 4		***		Use	er 4				
		User 5		***		Use	er 5				
		readonly		***		Rea	id Only				

Figure 60: Password Definitions Screen

This screen lists pre-assigned user names and passwords.

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

6.5.4.5 Data Collect

Refer to Appendix B: Data Collection, page 55.

6.5.4.6Activity Log

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

	⊗ Munter	S Eran A_I	Irrigation	ശ	\$	~				0
1	Farm settings	External Devi	ces Push N	otifications	Local Users	Data Collect	Activity	log		
	Gateway Name	From Date	To Date	Event	Sul	b Event	User	Cmd ID		
	Eran A_Iri	21/12/202	03/01/202	Genera	al Sys 🔻	•			Refre	esh
	Event D	ate Gate	way	Event		Sub Eve	nt	н	ouse #	C

Figure 61: CommBox Plus Events

Refer to Appendix A: Generating an Activity Log, page 53 for detailed information on this function.

6.5.4.7 General Settings

N/A

6.5.5 HOUSE SCAN TAB

The House Scan screen:

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

	⊘ Munters ⊓	Test farm	ഗ	New
<u>.111</u>	Scan Progress			
	House	1	2	
1	Ping	Passed	Passe	d
2	Analyze	Passed	Passe	d
	Load Controller Configuration	Passed	Passe	d
	Load Controller Data	Passed	Passe	d
	Controller Type	Irrigation Greer	nField Irrigation Gr	eenField
	Controller Version	3.9.5	3.9.8	j
	Check to rescan			



6.6 Software Upgrade

- Upgrade Procedure
- User Information

6.6.1 UPGRADE PROCEDURE

You can upgrade certain software programs from the Web application.

- GreenField App software
- Web application
- CommBox Plus software
- NOTE CommBox Plus can be updated locally only; it cannot be updated remotely. The System Update button does not appear in remote connections.
- NOTE You cannot upgrade product software! Upgrade your product software using the procedures given in the product manuals.
- NOTE If you are using a disk on key start here. If you are updating your CommBox Plus via the web, go to step 4.

1. Request the software upgrade from your dealer. You will be sent (via email, web transfer, etc.) a UPD file.

- a. Place the file on a disk on key/flash drive.
- b. Place the disk on key/flash drive into the CommBox Plus USB port.

2. In the web application, click the Farm Settings tab. The following screen appears.

Farm settings	Push Notifications	Local Users	Data Collect	Activity log		
The farm is conne	ected to the web	Disconnect			System Update	
Farm Name						~
NickDesk						

Figure 63: Farm Settings System Update

3. Click System Update. The following screen appears:

R e TE/	Μ						K Go Back		
Update Combox									
Current Version	Build		Last Upda	Last Update CRefresh Update List					
1.50.7	100		8/9/2018 (02:59					
Available Updates									
Online Update	Update from a	a removable drive							
Version	Build	Release Date		Drive	Description	Туре			
1.50.7	100	29/05/2018		G:\		Reinstall	Reinstall		
1.50.8	109	06/08/2018		G:\		Upgrade	Upgrade		
Version: 99.3.9.23									

Figure 64: Update Software

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

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

R ● TE/	ROTEM Go Back								
Update Con	ıbox								
Current Version	Build	Last Update	C Refresh Update List						
1.50.7	100	8/9/2018 02:59							
Available U	pdates								
Online Update	Update from a removable drive								
Version: 99.3.9.23		Update File	s Not Found						

Figure 65: Error Message

6.6.2 USER INFORMATION

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

ters	TestCN_Cbox		Customize	Nick ~
H 🚫 N	lunters			
	Thank you for updatin	g to RNW v. 4.7.4.1 e form below	9	
	Skip for	r now		
Tin	Farm name	TestCN_Cbox		
Av	Street	34 Main Street		
Sta	City and State/Province	Delaware		
Ins	Country	USA	~	
Tu	Zip Code	55555-5555		
Ou	Integrator name	FOSTER FARMS	~	
Vei	Segment	Poultry Swine Others		
Vei				
Vei				
Sta				
Су	Subr	mit		
Set				

Figure 66: User Information Screen

6.7 About Tab

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



Figure 67: Tech Support Screen

7 Diagnostics

CommBox Plus includes a basic diagnostics package.



Figure 68: Diagnostics Selection

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

ROTEA Device Details	[®] Diagnostics			Go Back
Serial Number	Version			
TSBG07009328	1.50.8.46035			
Diagnostic Tests				
Test Name	Test Instruction		Pa	ss Fail
Comm Port Connection	 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 V House Number 1 Repeatable Com 2 Connection 9600 V House Number 1 Repeatable	Run Test	
Internet Connection	 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	 On the Comm-Box, connect the LAN cable to one of the LAN ports. Click Run Test. 		Run Test	
Latest Image Version Installed	 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	 On the Comm-Box, connect the LAN cable to one of the LAN ports. Click Run Test." 		Run Test	
		Total	Results:	
				Speed Test

Figure 69: Diagnostic Tests

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

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

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

Test Name	Test Instruction			Pass	Fail
Comm Port Connection	 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 Repeatable	Run Test	✓ 1.2609012	

Figure 70: Standard Tests

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

Test Name	Test Instruction			Pass	Fail
Comm Port Connection	 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 Repeatable	Run Test	↓ 27.481028	

Figure 71: Repeatable Tests

• Enables a speed test.



Figure 72: Speed Test

8 Appendix A: Generating an Activity Log

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

- These inquiries can only be made via the web. Local connections or connecting via TeamViewer do not support this function.
- Only changes made via the web are listed! Changes made locally by the farm owner or administrator are not listed.
- Only administrators can perform this function.
- 1. Connect to a farm via <u>www.rotemnetweb.com</u>.

⊗ Mun	Munters Demo system	ശ	Ben Waxma	n v 🌣 x 💁
Greenfield 1	🟠 🗮 📶 Active Pro.		10/01/23 11:14	🕈 Farm Settings 🔋
Greenfield Eco				House Scan
	Water > Flow Rate 00:14:49 113.019 Set 00:20:00 Set 110 0 00:20:00	100 <i>l20</i> 8 100 5	EC Sen. EC Pre.	iAbout On Pert இ On
	Active Program > Next Pro. 00:00 00:00:00 1 Start At Time Remain	Active Valves > Cycle > 3 & 4 & 5 ^{5/15}	1.6 Actual → Target	Flushing Status Off I Status Off Misting I Status Misting On Status I Status
2. Un	der the settings icon, clic	k Farm Settings.	 ▲ ben ~ ☆ × ☆ ☆ ? # Farm Settings O House Scan 	∢ ~

3. Click the Activity Log tab.

⊗ Munte	ers Munte	ers Demo syste	m 🕝			Ber	Waxman 🗸	\$ ~	0
Greenfield 1	Farm settings Da	ta Collect Activity log	General Settings						
Greenfield Eco	Gateway Name Munters Demo sy:	From Date 10/01/2023 00:00	To Date	Event v	Sub Event	v User	Cmd ID	Refresh	
	Event Date *	Gateway	Event	Sub Event	User	Elapsed	House # Cmd	ID	

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

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

Farm settings Data	Collect Ac	tivity log General Settings						
Gateway Name Munters Demo sy:	From Date	To Date	Event Save Farm Data V	Sub Event	v User	Cmc		Refresh
Event Date •	Gateway	Event	Sub Event	User	Elapsed	House #	Cmd ID	
10/01/23 11:33:03	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	2.353 sec	1	15	show info
10/01/23 11:32:11	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	813 ms	1	9	show info
10/01/23 11:31:57	Munters Demo system	Save Farm Data	Web Request Ended	Ben Waxman	2.776 sec	1	101	show info

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

9 Appendix B: Data Collection

9.1 Centralized Collection

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

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

🛇 Munte	ers	Irrigation-Sa	ami			á	Ben Gma	ill 🗸 🏠 🗙
III Comparison	Farm settings	Push Notifications	Data Collect	Activity log	General Settings			🗬 Farm Settings
	Farm Name					Attached Web Groups		House Scan
	Irrigation-Sami					Server https:rotemnetweb.com		i About
	Farm Type					Group Name	Owner	
	Irrigation		~			CommBox	Nick	
						Irrigation	Nick	

2. Go to Farm Settings > General Settings.

Farm settings	Data Collect	Activity log	General Settings	
General	Settings			
Farm Code				
Integrator Name				
None				~
Dealer				
None				~
Data Provider				
None				~
Accept Data	Provider License	License Agreeme	ent	
				Save

3. Enter the data as follows:

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

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

NOTE This acceptance is saved.

Farm settings	Data Collect	Activity log	General Settings						
General Settings									
Farm Code									
34234234QD									
Integrator Name									
Other									
Dealer									
Other									
Data Provider									
Other	Other								
 Accept Data 	Accept Data Provider License License Agreement								
Accepted on 29/12	Accepted on 29/12/2022 14:38 By John Smith								

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

9.2 Defining the FTP/SFTP server

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

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

Farm settings	External Devices	Push Notifications	Local Users	Data Collect	Activity log
Data Upload Se	ettinas Loa				
▼ Data Upload Settings					
Data Upload Allo Farm name fo	wed Dr				
collect	Farm				
License key	a65212f8-56a4-	4bab-85d6-48b22e54cf2			
Expired date	30/05//2023				
Allow to chan	ge				
ETP SET					
FT	P Remote Serv				
Host Address					
Port Number	0				
Target Folder					
User Name					
Password					
▼ Collect Preferences					
Auto Collect					
 Alarm History VFT Collect Alarms every 1 minute 					
Select Output File Formats: MTech					
Define The min.	Data Collection Inter	val 15 🗸			
	Select Hou	ses			
✓ House Number					
✓ House 1					
Save					

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

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

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

10 Appendix C: Adding a SIM Card/Modem

1. Remove the CommBox Plus cover.



2. Open the clips securing the memory card.



3. Place a working SIM card into the SIM slot. Place the card as shown in the following pictures.



4. Put the memory card back in place.



5. On the right side of the unit is a plastic cover. Remover the cover.



6. Place the modem on the MINIPCIE1 connector and screw it in.



7. Attach the internal antenna to the modem's main connector and to the unit.



8. Attach the external antenna to the port.



11Warranty

Warranty and technical assistance

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Requests for technical assistance and spare parts can be made directly to the nearest <u>Munters office</u>.

