Communicator 2.0 for Trio

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Installation and User Manual

Communicator 2.0 for Trio

Communication System

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Communicator 2.0 for Trio

Manual for use and maintenance

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

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1 Introduction

1.1 Disclaimer

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1.2 Introduction

Congratulations on your excellent choice of purchasing a Trio 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 Communicator 2.0, 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 Munters equipment.

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 Trio controllers, 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
- 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 T-Box to External Devices
- Setting Up a Communicator 2.0 / Trio LAN
- Enabling SMS Messages
- Testing the Battery

NOTE: After installing the unit, check the Diagnostics (page 32) 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 Descriptic	n
---------------------------	---

Number	Description	Number	Description
1	Antenna mounting port (refer to Attaching the Antenna, page 11	8	25 pin connector (Not in use)
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 12)	10	Audio out (external speaker)
4	USB ports (mouse, KBD) (refer to Connecting the Communicator 2.0 to a Peripheral Device, page 12)	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 33)	
3	LED Board	
4	Line Modem Card	This card is under the LED board
5	Not used	
6	Board	
7	Cell Modem	
8	SSD Card	
9	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.



Figure 5: Grounding Schematic

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.



Figure 6: Internet Connection

3.7 Connecting the Communicator 2.0 to a Phone Line



Figure 7: Phone Line Connection

NOTE The telephone line-modem output connection wiring must provide double insulation. Use minimum 26 AWG wiring or larger for telephone line connection.

3.8 Attaching the Antenna

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



Figure 8: Antenna Attachment

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.



Figure 9: Connection to Peripherals

3.10 Connecting the T-Box to External Devices

If required, connect the T-Box to external devices and an ELS system (Figure 11).



1. Plug the 25 plug connector into the T-Box.

Figure 10: Communicator 2.0 – Junction Box – Controller Block Diagram

2. Wire the devices as shown in Figure 11.



Figure 11: T-Box Wiring Diagram with ELS

3.11 Setting Up a Communicator 2.0 / Trio LAN

Connect the Communicator 2.0 and Trio units via a local intranet.



NOTE The Communicator 2.0 and Trio units can be plugged into any port. The above drawing is an example only.



Figure 12: Trio Ethernet port

CAUTION Connect the intranet cable to port 2. Do not connect the cable to port 1.

1	Internal port (do not use this port)
2	Ethernet port
3	RJ-45 cable

3.12 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



3.13 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 Specifications

Power Supply					
Mains Input Power	100 - 240 VAC, 50/60 Hz				
Maximum Power Consumption	1.8A				
Main Fuses					
Main Fuse 230/115 VAC	F1: 250 VAC/3 A				
Battery Fuse	F2: 1.85 A				
Switching Power Supply	F3: 1.1 A				
Connection Box Peripherals					
8 Digital Inputs	Dry Contact, 5V / 2 mA				
Relays Outputs					
N.C/N.O. (OMI) Blue Small Low Power Relay	5 Amps, 250 VAC				
Alarm Output					
N.O and N.C (Double) (OMI) Pilot Duty	5 Amps, 250 VAC				
Environmental Specifications					
 Indoor use only Altitude: -400 m to 2000 m Relative Humidity: 20% - 70% Main supply voltage fluctuation up to 5% Overveltage category II 					
Housing					
Metal Box Dimensions (L x W x H)	416 x 266 x 60 mm				
Ambient Climate					
Operating Temperature Range	0 [°] to +35 [°] C / +32 [°] to +95 [°] F				
Storage Temperature Range	-10 [°] to +50 [°] C / +14 [°] to +125 [°] F				
Certification					
TÜVRheinland c us FCC	CB CE				

5 Functionality

The following sections describe how to use the web functions.

- Farm Settings
- Alarms
- Responding to Alarms
- Testing the Communicator 2.0
- Additional Functions

5.1 Farm Settings

Use this screen to define functions related to Communicator 2.0's connection to your farm.

⊗ Munter	S Comm2_Trie	o_Lab	À۲	*	\$	~
Farm settings	Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms
Farm Name						
Comm2_Trio_La	b					
Number Of House	es To Be Scanned]				
Thursday, Decemb	er 2, 2021 11:36 AM	Change date and	1 time			
Time zone						
(UTC+02:00) Je	rusalem 🔻					
Save/Rescan						

- Farm Name: This name appears on your screen.
- Number of Trios to be Scanned: Click the -/+ buttons to enter the number of houses. Scanning tests communication to the Trios. If you wish to scan all houses or individual houses, click the relevant house number. Click Rescan farm houses to complete the scan.

NOTE The number of units entered must match the actual number of units. If they differ, an error message appears. Up to 64 houses can be scanned.

- Date and Time/Time Zone: Enter the information.
- Click Save Changes.

5.2 Alarms

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

- Alarms can only be 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 <u>contact list</u> 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.
- Editing the Settings
- Adding Contacts
- Alarm and Events History
- Digital Inputs
- Disable Alarms
- Clear Alarms

5.2.1 EDITING THE SETTINGS

1. Click the Alarm Settings tab.

Munters Comm2_Trio_	Lab 📻 🗸	🕅 × 🚯	× ×
Farm settings Alarm Settings	larm Contacts Alarm History	Event History Digital Input	Disable Alarms
Alarm Settings	About	Tests	
Alarm Report Delay 60 sec. Delay Minimum time that an alarm event continues before sending a report User Gap Time 2 sec. Time delay before a message is sent to next user in the list Message Repeat Message Repeat 60 min. Delay If no alarm acknowledgement is sent - define time before message transmission restarts	Connectivity Baud Rate 9600 Com Port COM4 Cellular No Signal Signal IMEI IMEI 86796204126395 Power Management Battery Battery Battery Installed Last Test 11/23/2021 5:40:51 PM Serial ID TRIO15092020	Phone Line Cellular Modem 90 Create Test Alarm Send Email Send Push Notification	Test > Test > Test > Test >
Test Message 9:00 Time 9:00 Scheduled daily test Country of Germany installation Generator Ip Address Phone Line Alarm Off Send an alarm if telephone line is disconnected Line-Out Volume	Hardware Profile Email 1.00.08.00 Push 1.00.08.01 Notification	Clear Houses & Alarms	Clear >

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

2. To edit the Alarm Settings click 💉 .



	Comm2_Tri	o_Lab 🗧	Â×	(< t	} ~
Farm settings	Alarm Settings	Alarm Contacts	Alarm History	Event Histor	y Digital Input	Disable Alarms
Alarm Settings	;	X About		-	Tests	
Alarm Report Delay Minimum time that a before sending a rep	60 sec. n alarm event continu	Connectivity Baud Rate Com Port Cellular Signal	9600 COM4 No Signal	1	Phone Line Cellular Modem	Test >
Time delay before a user in the list	2 sec. message is sent to n	ext IMEI Power Manag	8679620412639 gement	90	Create Test Alarm Send Email	Test >
Message Repeat Delay If no alarm acknowle define time before m	60 min. dgement is sent - essage transmission	Last Test	11/23/2021 5:40:51 PM		Send Push Notification	Test >
restarts Test Message Time Scheduled daily test	9:00	 Hardware Pro Email Push Notification 	ofile 1.00.08.00 1.00.08.01		Factory Defaults Clear Houses & Alarms	Clear >
Country of installation	Germany	 Sms WDT Parser Gateway 	1.01.08.21 1.01.08.06 1.00.08.20 V1_70			
Address Phone Line Alarm Send an alarm if tele	phone line is	Power Board Communicato 2	1.0B.00.00 or- 1.1.8.84			
disconnected Line-Out Volume Define the volume du	uring a phone call	10				

- 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.

5.2.2 ADDING CONTACTS

- 1. Click the Alarm Contacts tab.
- 2. Click 📥 . The following screen appears.

⊗Mun	ters Com	1m2_Trio_La	ab 🗖	A.	í	· ~	\$ ~	
Farm settings	Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms		
		+				Active		\mathbb{B} ×
Priority 1	Contact Na w Contact	ime	Personal Deta	ails		Preferences		
			Voice Message No. Text Message P No. Email Message Type * Notifications re	Phone	ail h Notifications	Availability Sunday Mor Thursday Fi On Selected Day Available 24H	nday Tuesday Wedra riday Saturday /s	esday
			Permission Allow User To R Pin code for inco calls	eset Alarm C	n			

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.
 - Email
 - Push notifications

- Language: Select the language from the drop down list.
- Availability:
 - \circ $\;$ 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

5.2.3 ALARM AND EVENTS HISTORY

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

Munters of	omm2_Tri	o_Lab 🗧	A.	R ~	¢	~
Farm settings Ala	rm Settings	Alarm Contacts	Alarm History	Event History	/ Digital Input	Disable Alarms
Refresh						
Controller Name	Alaı	rm Message	Alarm Da	nte Han	dled By Controller	Handled By O
Munters- 110000005446	Ammonia Sen	sor 0 Failure	02/12/2021 11	:40:00		-
Munters- 110000005446	CO2 Sensor Fa	ail	02/12/2021 11	:40:00		
Munters- 110000005446	High Tempera	ture	02/12/2021 11	:40:00		
ng5device	Sensor 3 Low	Temperature	02/12/2021 11	:39:44		
ng5device	Low Temperat	ture	02/12/2021 11	:39:44		
Munters- 110000005446	Silo Scale Sen	sor 1 Failed	02/12/2021 11	:39:29	~	
Munters- 110000005446	Bird Scale 2 F	ailure	02/12/2021 11	:39:29	~	
Munters- 110000005446	Bird Scale 1 Fa	ailure	02/12/2021 11	:39:29	~	
Munters- 110000005446	Water Shortag	ge	02/12/2021 11	:39:29	~	
Munters-	Pressure Sens	or Fail	02/12/2021 11	:39:29	~	
						Next Page

5.2.4 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.



1. Click the Digital Input tab.

■ Ø Munter	S Comm2_Tri	o_Lab	A٠		·	¢	~		
Farm settings	Alarm Settings	Alarm Contacts	Alarm History	Ever	nt History	Digital Input	Disabl	e Alarn	15
DI Number		Text Message	2		Notificati	on Delay (Sec.)	N	A	A
1	Not Defined			[10]. 🗍		
2	Not Defined					10].		
3	Not Defined			. [10			
4	Not Defined					10			
5	Not Defined			. [10			
6	Not Defined					10			
7	Not Defined			. [10			
8	Not Defined					10			
Save Changes									

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.

5.2.5 DISABLE ALARMS

To disable an alarm:

- 1. Click the Disable Alarms tab.
- 2. Click the corresponding radio box.

⊗Mun	ters Com	nm2_Trio_La	ab 🗖	A v		~ ~	\$ ~	
Farm settings	Alarm Settings	Alarm Contacts	Alarm History	Event History	Digital Input	Disable Alarms		
			Alarm [·]	Туре				Is Disabled
Low Temperat	ture							
High Tempera	iture							
Sensor Low Temperature								
Sensor High T	Sensor High Temperature							
Emergency Low Temperature								
Emergency High Temperature								
Circuit Breaker High Temperature								
Egg Room Lov	Egg Room Low Temperature							
Egg Room Hig	h Temperature							
Temp Sensor	Out of Range							

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

5.2.6 CLEAR ALARMS

To clear the alarm history, under Factory Defaults, click Clear.



5.3 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

5.3.1 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

5.3.1.1 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:



- 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.

5.3.1.2 Responding to the Alarm Message

• System reports alarm and then offers the following options:



Disable alarms







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.

5.3.2 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

5.3.2.1 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.

5.3.2.2 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

5.3.2.3 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

5.4 Testing the Communicator 2.0

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

5.5 Additional Functions

- Software Upgrade
- Battery Status
- Controllers Connectivity

5.5.1 SOFTWARE UPGRADE

You can upgrade certain software programs from the Web application.

- Trio 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 2.
 - 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. On the main screen, click the settings icon 🚺. From the drop down list select

Software Update. The following screen appears:

R•TEM Co.							
Update Combox							
Current Version	Current Version Build Last Update CRefresh Update List						
1.50.7	100)	8/9/2018 0	2:59			
Available Updates							
Online Update	Update fro	om 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							

- 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 O TE <i>l</i>	Μ			Co Back
Update Con	ıbox			
Current Version	Build	Last Update	CRefresh 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	

5.5.2 BATTERY STATUS

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

≡	⊗ Munter	<mark>S</mark> Comm2_Tri	io_Lab 🗧	A.	*	¢	• ~
	Farm settings	Alarm Settings	Alarm Contacts	Alarm	Plugged in	Digital Input	Disable Alarms
	Farm Name	b			Last Battery Use		
	Number Of House	es To Be Scanned			12/2/2021 11:24:24 AM		

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

5.5.3 CONTROLLERS CONNECTIVITY

Click o	n the house symbol 📒	to v	iew the status of the co	ontroller connectivity.
Cor	ntrollers Connectivity			
No	. Name	IP	1	
1	Room_1	10.16.8.111		
2	UnKnownRoom_255	10.16.8.114		
3	Room_1 & Room_2	10.16.8.119		
4	UnKnownRoom_25	10.16.8.100		
5	Room_1	10.16.8.135		
6	UnKnownRoom_1	10.16.8.122		
7	UnKnownRoom_1	10.16.8.107		
8	Room_1 & Room_2	10.16.8.115		
ОК				

- Click on a specific house or room to go to that Trio unit.
- If a house has alarms, the house is red.



5.5.4 ABOUT TAB / TECHNICAL SUPPORT



In the Settings icon, click **About** to display 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 1.1.1.0	
Communicator II version 1.1.1.0	
Support ID 367247877	
Communication Service Status: Running	
ОК	

6 Diagnostics

Use the product LEDs to troubleshoot any issue.

LED	Description	Diagnosis
	Power LED. Power is applied.	Should be green
((יו))	Connectivity to RLINK One	 No light: No modem installed Red: Modem installed but no connectivity Green LED: OK
白白白	LAN signal	 No light: No modem installed Red: Modem installed but no connectivity to house Green Blinking LED: OK
	Cell phone modem	 No light: No modem installed Red: Modem installed but no connectivity Green: OK
)	Telephone line	 No light: No modem installed Red: Modem installed but no connectivity Green: OK
	Web connectivity: Tests connection to the application.	 No light: No physical connection Red: No connectivity Green: OK
())	Active alarm	Off: No active alarm(s)On: Active alarm
	Battery	 Red: Battery is disconnected Red Blinking: Battery is not charging (consult with dealer immediately) Green Blinking LED: Battery is charging Green: Battery is charged

7 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.

8 Appendix B: IT Setup

The following information is intended for the IT specialist/ISP personnel setting up the internet network between the Communicator 2.0 and Trio Controllers.

- IT Setup
- LAN Cable Information
- Typical Setups

8.1 IT Setup

- Communicator 2.0 and Trio controllers must be on same subnet LAN.
 - Employ a standard home router, using the default settings, and all devices on the same router.
 - On the local network, Communicator 2.0 and Trio must have same the subnet mask (subnet mask must be 255.255.255.0.
 - Three first sections of the Communicator 2.0 and Trio IP address must have the same numbers (i.e <u>192.168.1.x</u>).
 - Network must be IPv4.

NOTE Munters recommends have a dedicated subnet for the Communicator 2.0/Trio network.

- The local network can employ a firewall on condition that the following ports are open:
 - Zero-configuration networking (zeroconf)
 - RabbitMQ
 - MQTT
 - AMQPT
 - o **15672**
 - o **1883**
 - o **4200**
 - UDP port 5353
 - UDP port 1900
 - TCP port 3689
 - o **5355**
 - 1883 MQTT
- Communicator 2.0 has a built-in firewall; all outgoing ports are closed. Incoming ports 8- and 443 are open.

8.2 LAN Cable Information

- Wire/Optical Ethernet Infrastructure Basics
- Trio Connectivity: 100/1000 GBPS Ethernet Switch

8.2.1 WIRE/OPTICAL ETHERNET INFRASTRUCTURE BASICS

- Wire Ethernet 1100/1000 BaseT Copper
 - Media CAT5E or CAT6 Cable with maximum segment length of 100 meters
- Optical Ethernet 1000Base-X Optical
 - 1000Base-SX Media Short Haul multi-mode optic fiber (MMF) with maximum segment length of 220 meters (62.5/125µm type) or 550 meters (50/125µm type)
 - 1000Base-LX Media Long Haul single-mode optic fiber (SMF) with maximum segment length of 10000 meters
- Connectivity
 - Connectivity is Point-to-Point using 100/1000 Switches
 - Low latency network. If the DHCP takes too long (over 3 minutes) to assign IP addresses to controls, it may cause lost communication alarms when controls reset.
- Equipment
 - Wire Switch serves for Ethernet switching over wire connectivity
 - Could be with preinstalled specific Optic Transceiver (short or long haul)
 - Could be with the SFP port, serving for pluggable SFP Optic Transceiver
 - SFP Transceiver pluggable device serving to transmit data over optic fiber
 - 1000Base-SX SFP serves for multi-mode optic fiber (MMF) of
 - 62.5/125µm type or 50/125µm type
 - 1000Base-LX SFP serves for single-mode optic fiber (SMF)
 - Media Converters server for converting from optics to wire and vice versa. This is used for segments over 100 meters / 330 feet.

8.2.2 TRIO CONNECTIVITY: 100/1000 GBPS ETHERNET SWITCH

- The switch is wired to the router and modem to access the Internet.
- Switches can be wired to each other by Ethernet cables, each one splitting off to other devices.
- Gigabit switches support 100 and 1,000 Mbps.

8.3 Typical Setups



Figure 14: Typical Poultry Installation 1



Figure 15: Typical Poultry Installation 2



Figure 16: Typical Swine Installation

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 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 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 <u>Munters office.</u>

