

Installation Manual

RBU-5



RBU-5r Backup Unit

Ag/MIS/UmGb-2885-07/23 Rev 1.0
116267



RBU-5

Installation Manual

Rev 1.0, 7/2023

Software Version: N/A

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

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

Index

<i>Chapter</i>		<i>page</i>
1	INTRODUCTION.....	4
	1.1 Disclaimer.....	4
	1.2 Introduction	4
	1.3 Notes	4
2	PRECAUTIONS.....	5
	2.1 Grounding	5
	2.2 Checking the Battery Level.....	5
3	SYSTEM FUNCTIONS.....	6
4	WIRING DIAGRAM	7
5	SPECIFICATIONS.....	8
	5.1 Environmental Protection.....	8
6	WARRANTY	9

1 Introduction

1.1 Disclaimer

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

1.2 Introduction

Congratulations on your excellent choice of purchasing an RBU-5!

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: May 2021

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

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2 Precautions

2.1 Grounding

- Always connect temperature and sensor shields to earth ground.
- Keep the RBU-5 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 units.

2.2 Checking the Battery Level

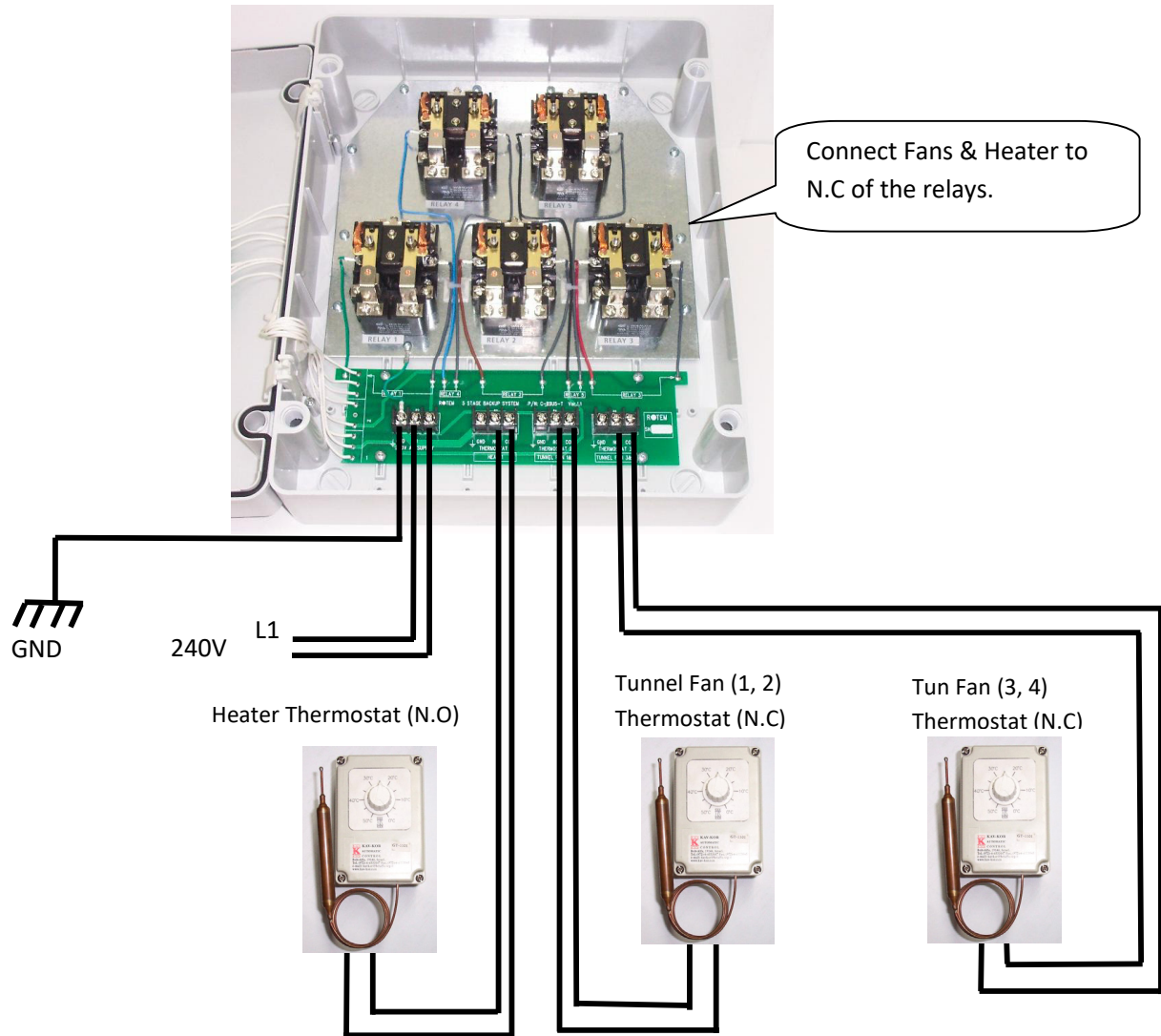
Check the battery once a year. The output must be 2.7 volts (minimum). Authorized personnel only must replace the battery if the output is below the minimum required level or every five years.

3 System Functions

The 5 stage backup system functions in two distinct capacities:

- In the event of general failure of the controller it performs the Backup System function settings at the current operating temperature.
- If sensors reading temperatures that are higher than what is set for the thermostat, the backup system will also take control.

4 Wiring Diagram



1. Connect the backup system to the thermostat like shown in the diagram.
2. Connect the backup relays N.C side to the suitable instruments according to the tags.
3. Perform a test to the thermostat while main controller shut down.

5 Specifications

Power supply	
Mains voltage, dual phase	230 VAC 50 - 60 Hz (USA & CANADA)
Mains voltage, single phase	230 VAC 50 - 60 Hz (Outside the US & CANADA)
Mains frequency	50/60HZ
Relays outputs	
Resistive load	30°, 277VAC
Housing	
ABS	UL 94-VO (type A 960° C) IP 56
Dimensions (LxWxH)	380 x 300 x 120 mm
Ambient climate	
Operating temperature range	-10 to +50 C° (14 to 125 F°)
Operating humidity range	0% to 100%
Storage temperature range	-10 to +70 C° (14 to 158 F°)

5.1 Environmental Protection



Recycle raw materials instead of disposing as waste. The controller, accessories and packaging should be sorted for environmental-friendly recycling. The plastic components are labeled for categorized recycling.

6 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 RBU-5 (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](#).

