

# Manual for use and maintenance

## Pig Guard Plus Expansion



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### Controller Relays

Ag/MIS/UmGB-2559-04/18 Rev 1.1  
P/N: 116204

 **Munters**

# Pig Guard Plus Expansion

## Manual for use and maintenance

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**Product Software:** 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.

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# 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 Pig Guard Expansion!

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

## 1.3 Notes

Date of release: July 2010

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

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## 2 Introduction to the Pig Guard Expansion

The Pig Guard Expansion provides additional relays to a Super Guard / Pig Guard Plus system. Each Pig Guard Plus unit can support one Expansion unit. The Pig Guard Expansion is then connected to high voltage devices such as fans or heaters.

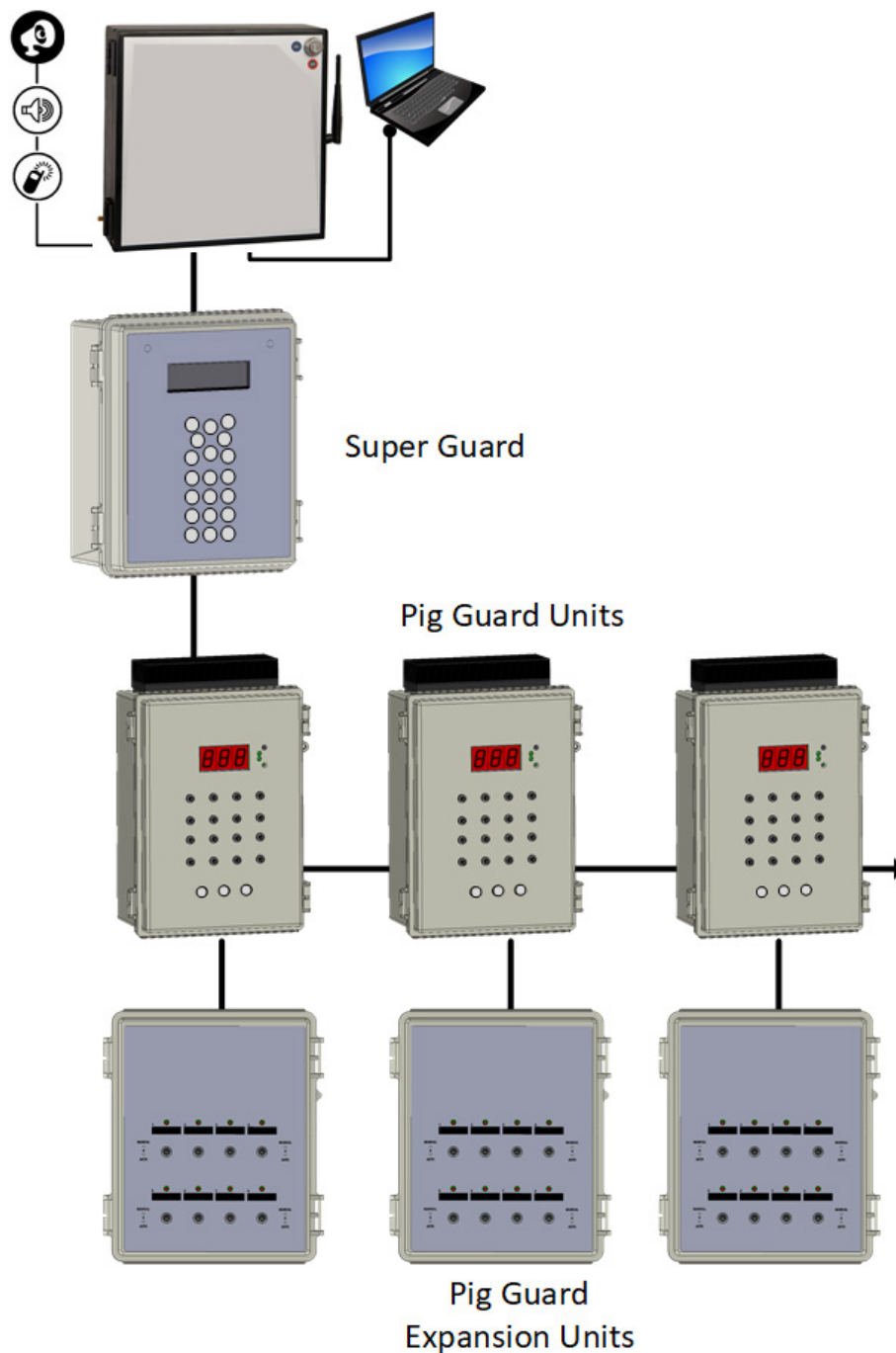
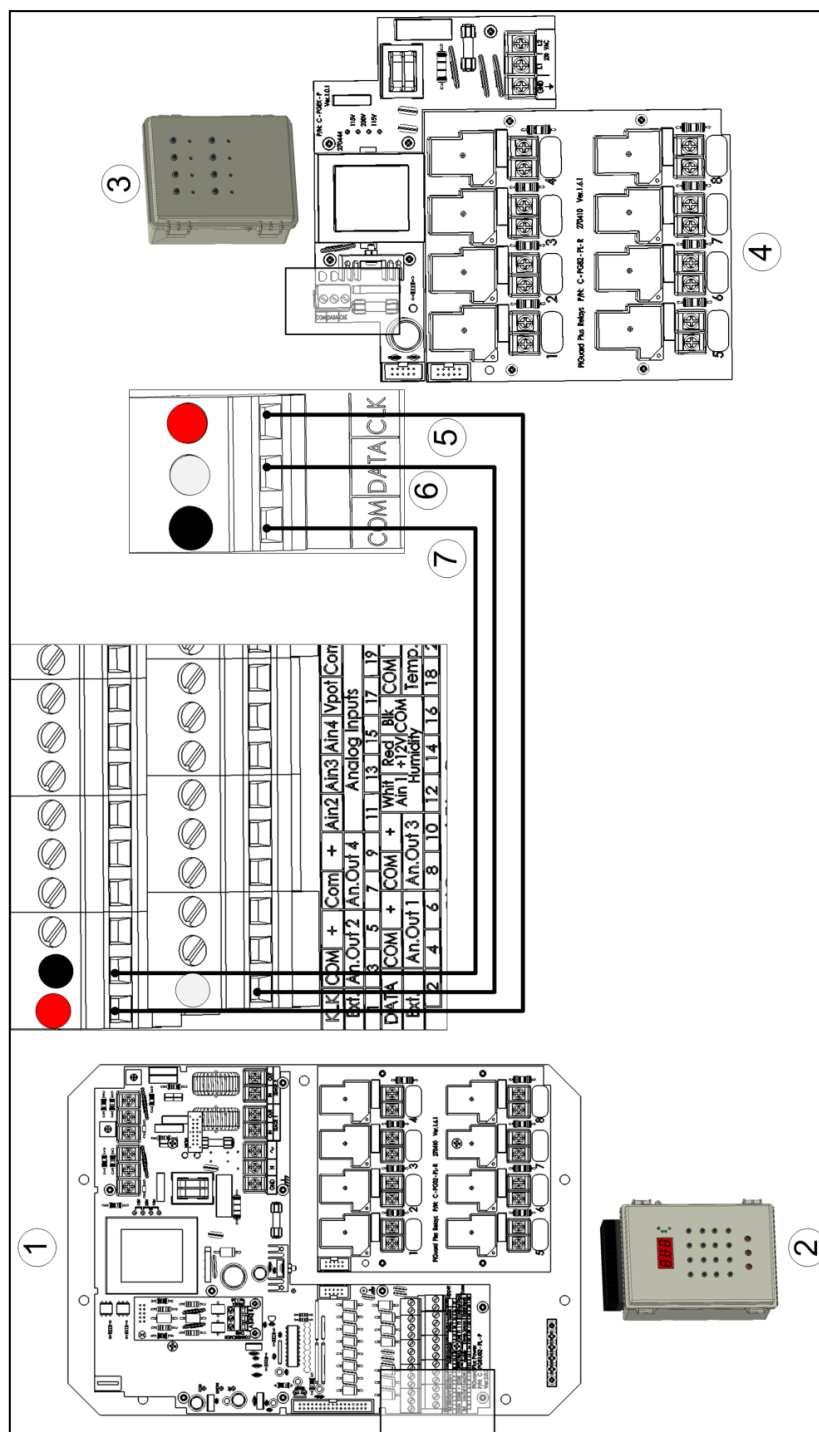


Figure 1: Pig Guard Wiring Diagram Expansion Box



Explanation	
1	Pig Guard Board
2	Pig Guard
3	Pig Guard Expansion
4	Pig Guard Expansion Board
5	Clock port
6	Data port
7	COM

- Disconnect the power before connecting the Pig Guard to the Expansion Box!
- To ensure that the Pig Guard identifies the Expansion box, apply power to the Expansion Box before applying power to the Pig Guard.

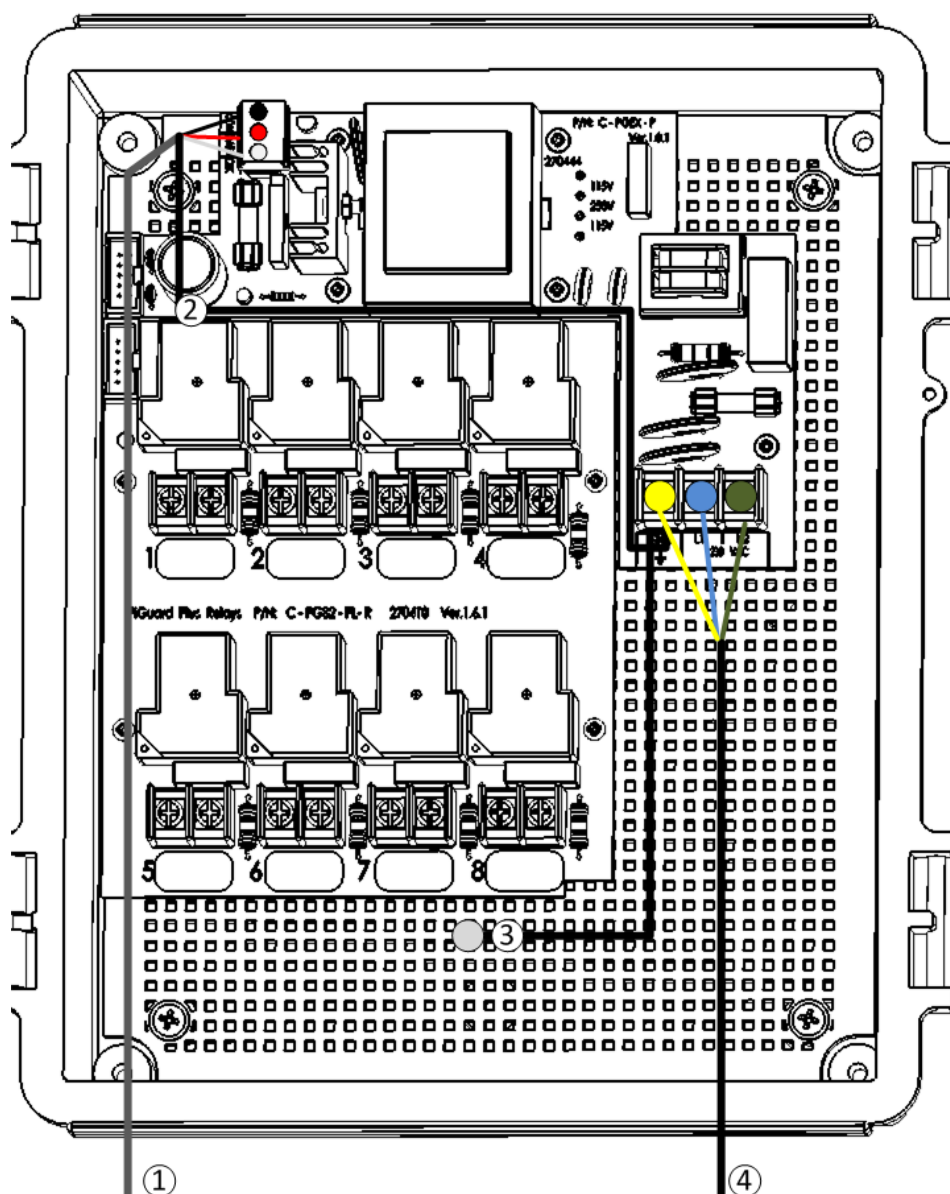


Figure 2: Pig Guard Expansion Box wiring

1	I2C shielded cable, running between the Pig Guard and Pig Guard Expansion Box	3	Connect ground wire to shield
2	Connect the shield to the ground	4	Power

The Expansion box should be connected with a shielded cable (I2C cable) as appears in the photo above. The shield has to be connected to ground with a wire that is soldered to the shield of the I2C cable (factory supplied). The shield is connected to ground only on the Expansion box side (on the Pig Guard side the shield has to be left unconnected). On the Pig Guard side connect the Black wire (COM) to Common, the Red wire to CLK (Clock), and the white wire to Data.


*NOTE The I2C communication cable (1 Meter) is connected to the Expansion box and the shield is grounded. Don't extend the cable and keep it far from high power cables.*

- After wiring the units, set the switches to their required position (On, Off, Auto).

#### Certification



## 4 Specifications

<b>Power supply</b>	
Mains voltage single phase	115/230 VAC
Main fuse	315 mA
Secondary fuse	1 A
Maximum power consumption	10 VA
<b>Available power for peripheral equipment</b>	
Relays outputs	
Eight normally open power relays	2 HP, 30 Amps, 250 VAC
<b>Housing</b>	
Dimensions (L x W x H)	92.5 x 73 x 36
<b>Ambient climate</b>	
Operating temperature range	0° to + 50° C
Storage temperature range	-10° to + 70° C
<b>Indoor Applications</b>	
The equipment is designed for use in indoor applications only!	
<b>Certification</b>	
	



# 5 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 Pig Guard Expansion, (for example sensors, cables, thermostats, etc.) is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

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

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

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

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

- dismantling the safety devices;
- use of unauthorised materials;
- inadequate maintenance;
- use of non-original spare parts and accessories.

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

- preparing installation sites;

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

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer. Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

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

Requests for technical assistance and spare parts can be made directly to the nearest Munters office. A full list of contact details can be found on the back page of this manual.

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