

Data sheet GCM MOD GMM ECxx.1

Communications module Modbus for GMM EC



GCM MOD GMM EC08.1
ERP no.: 5203905



GCM MOD GMM EC16.1
ERP no.: 5203906

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1 GCM MOD GMM ECxx.1

1.1 Functional description

The GCM MOD GMM ECxx.1 module is used to connect a Güntner control unit to the bus communication. It facilitates reading out data as well as external control via an RS485 interface. The protocol used is Modbus RTU.

The following versions of the GMM EC Modbus module are available:

GCM MOD GMM EC08.1	Modbus module for Güntner Motor Management for up to 8 EC fans
GCM MOD GMM EC16.1	Modbus module for Güntner Motor Management for up to 16 EC fans

These two versions differ only in size.

Both the information transmitted via the bus interface and the protocol used are described in detail in the relevant interface specification of the controller.

The RS485 interface is galvanically isolated.

1.2 Connections



Connections for GCM MOD GMM EC08.1



Connections for GCM MOD GMM EC16.1

Terminal TB1 is used to connect to the Modbus. Contacts A,B and GND are provided. The contact assignments can be seen on the PCB.

The DIP switch is used to terminate the bus connections. Only the first and last unit on the bus may have termination activated. All other units must have it switched off.

A service connector (TB2) is provided for firmware updates. It is intended only for use by personnel with appropriate Guntner training.

1.3 Electrical properties of

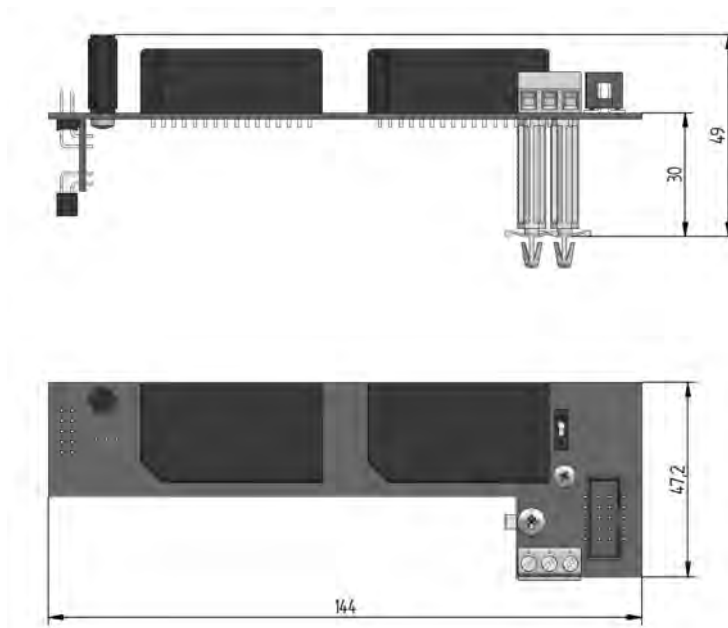
	Min	Type	Max	Unit
Power supply	20	24	30	V
Current consumption		80	250	mA
RS485 interface				
Termination (can be switched in)		120		Ω
insulation voltage galvanic separation			1,000	V (rms)
Data rate	–	9600	–	bit/s
Withstand voltage A/B	-18		+18	V

1.4 Installation / Operating conditions

- The module is intended for installation in a GMM EC casing.
- The shielding of bus lines must be earthed at one end only.
- Suitable shielding and routing measures must be taken to ensure that mains cables and motor cables do not cause any interference in signal and control lines.
- Bus cables must be connected via shielded cables.
- Recommended cables: Belden 9841, Lapp 2170203, Lapp 2170803, Helukabel 81910
- Ambient temperature: -20°C ~ +70°C
- Storage temperature: 0°C ~ +50°C, dry

1.5 Dimensions / Weight

GCM MOD GMM EC08.1

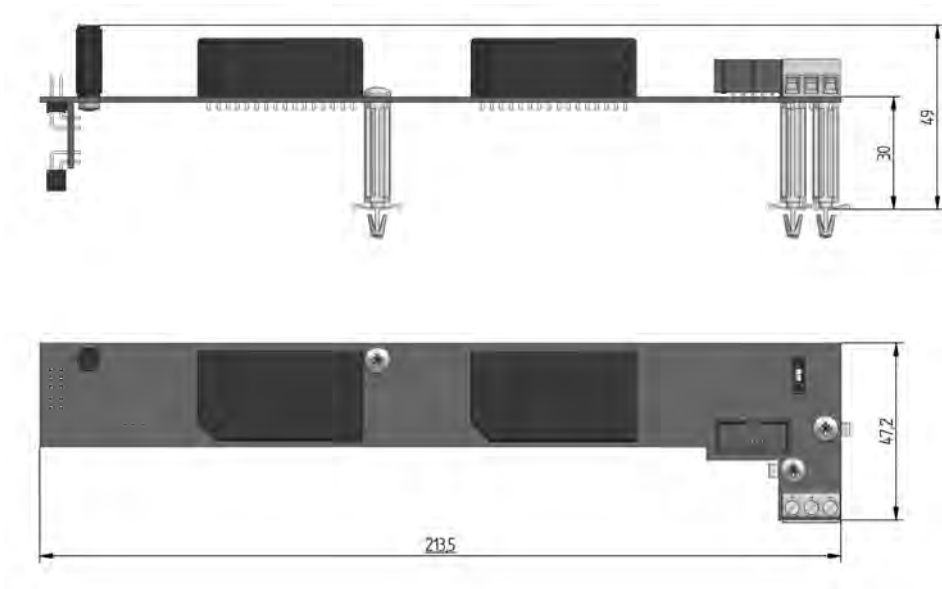


All values in mm

Weight:

approx. 65g

GCM MOD GMM EC16.1



All values in mm

Weight:
approx. 75g

1.6 Grounding/Shielding of several GMM-GCM Modbus devices

