

Data sheet GCM PROF GMM ECxx.1

Communications module Profibus for GMM EC



GCM PROF GMM EC08.1
ERP no.: 5204483



GCM PROF GMM EC16.1
ERP no.: 5204484

www.guentner.de

Contents

1	GCM PROF GMM ECxx.1.....	3
1.1	Functional description.....	3
1.2	Connections.....	4
1.3	Electrical properties of.....	6
1.4	Installation / Operating conditions.....	6
1.5	Dimensions / Weight.....	7

1 GCM PROF GMM ECxx.1

1.1 Functional description

The GCM PROF GMM ECxx.1 module is used to connect the GMM control unit to a Profibus network. Depending on the selected mode of operation, you can read out individual parameters from the control unit via the communication module or modify parameters from outside.

The following different Profibus modules are available:

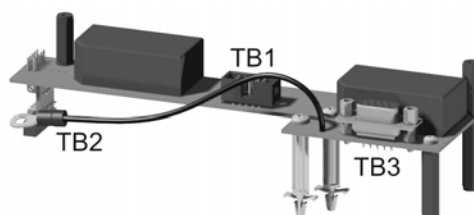
GCM PROF GMM EC08.1	Profibus module for Güntner Motor Management for EC fans, for up to 8 fans
GCM PROF GMM EC16.1	Profibus module for Güntner Motor Management for EC fans, for up to 16 fans

These two modules differ only in size.

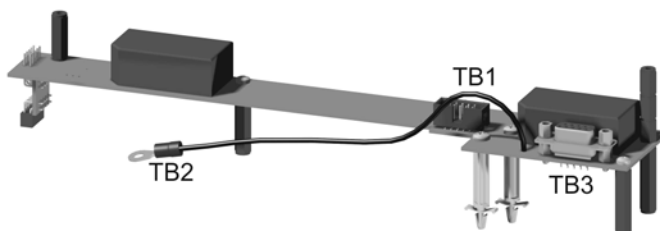
You will find a precise description of the individual parameters and programming details in the interface specification.

This module comes with automatic data rate detection and can be operated at rates up to 12 Mbps.

1.2 Connections



Connections for GCM PROF GMM EC08.1



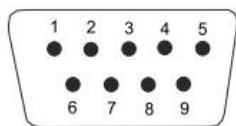
Connections for GCM PROF GMM EC16.1

The bus connection uses a standard 9-pin SUB-D connector (TB3). Make sure the SUB-D connector is correctly terminated. Only the connectors at the beginning and end of the bus may have termination activated. Connectors in the middle of the bus may not be terminated because incorrect termination can give rise to transmission errors. Please also note the instructions in the description of the SUB-D connector.

In addition to the Profibus connector, the supplied cable must also be connected for the shielding contact (TB2). The shield must be fastened to an unused screw connection on the EC controller board. The bus cable must not be used for potential equalization. A separate cable must be laid for that.

A service connector (TB1) is provided for firmware updates. It is intended only for use by personnel with appropriate Güntner training.

The bus connection uses a standard 9-pin SUB-D connector (TB3).



Pin assignment of Profibus connector:

Pin	Signal	Description	Assignment on unit
1	Shielding	Potential equalisation	Not assigned
2	M24	Earth 24V voltage supply	Not assigned
3	RxD/TxD-P	Data wire B	Assigned
4	CNTR-P	Repeater control signal	Not assigned
5	DGND	Earth for data signals and VP	Assigned
6	VP	Voltage supply +5V	Assigned
7	P24	+24V voltage supply	Not assigned
8	RxD/TxD-N	Data wire A	Assigned
9	DNTR-N	Repeater control signal	Not assigned

Make sure the SUB-D connector is correctly terminated. Only the connectors at the beginning and end of the bus may have termination activated. Connectors in the middle of the bus may not be terminated because incorrect termination can give rise to transmission errors. Please also note the instructions in the description of the SUB-D connector.

In addition to the Profibus connector, the supplied cable must also be connected for the shielding contact (TB2). The shield must be fastened to an unused screw connection on the EC controller board. The bus cable must not be used for potential equalization. A separate cable must be laid for that.

A service connector (TB1) is provided for firmware updates. It is intended only for use by personnel with appropriate Guntner training.

1.3 Electrical properties of

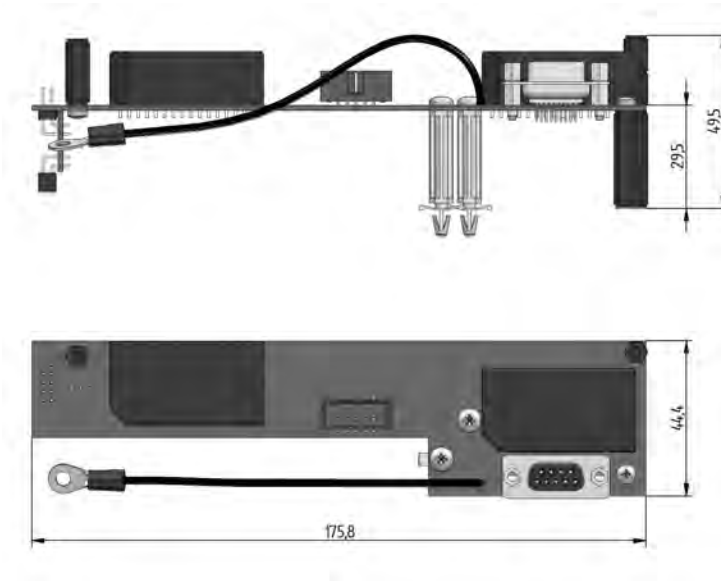
	Min	Type	Max	Unit
Profibus				
Transmission rate		1.5	12	Mbit/s
Galvanic separation			1000	V(rms)

1.4 Installation / Operating conditions

- The module is intended for installation in a GMM ECxx.x control unit.
- The shielding of bus lines must be earthed.
- Suitable shielding and routing measures must be taken to ensure that mains cables and motor cables do not give rise to any interference in signal and control lines.
- Bus cables must be connected via suitable shielded cables.
e.g. Helu 80267, Helu 80792, Helu 800109, LAPP UNITRONIC BUS LD FP P
- Ambient temperature: -20°C ~ +70°C
- Storage temperature: 0°C ~ +50°C, dry
- Protection rating: IP 20
- The unit complies with the EMC standards EN61000-62 and EN61000-6-4.
It is not suitable for use in a domestic environment.

1.5 Dimensions / Weight

GCM PROF GMM EC08.1

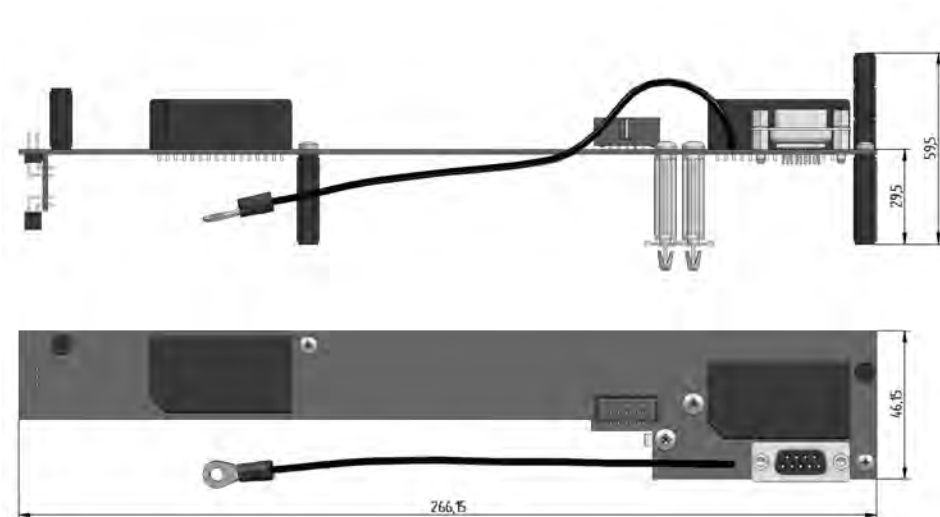


All values in mm

Weight:

ca. 65g

GCM PROF GMM EC16.1



All values in mm

Weight:

ca. 75g