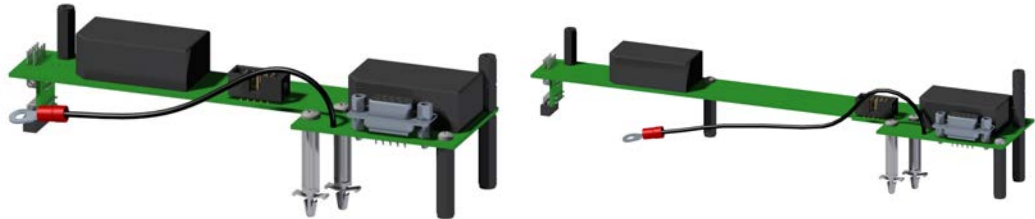


Data sheet GCM-GMM 08/16 PROF Communications module Profibus for GMM EC



GCM-GMM/08 PROF BAAN no.: 5204483

GCM-GMM/16 PROF BAAN no.: 5204484

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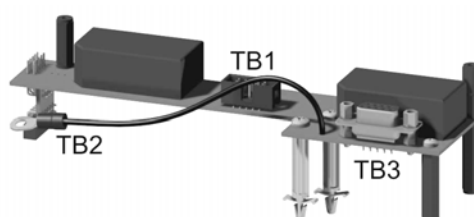
1 GCM-GMM 08/16 PROF

1.1 Functional description

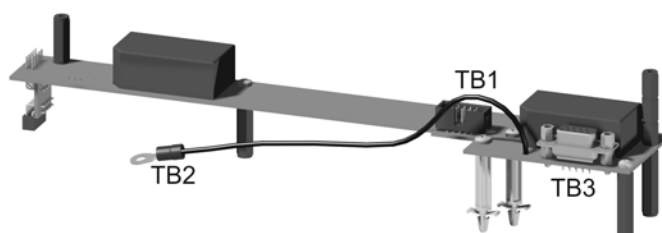
The GCM GMM/xx PROF module is used to connect the GMM controller to a Profibus network. Depending on the selected mode of operation you can read out individual parameters from the controller via the communication module, or modify parameters from outside. You will find a precise description of the parameters and programming details in the interface specification.

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

1.2 Connections



Connections GCM GMM/08 PROF



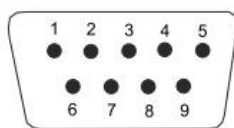
Connections GCM GMM/16 PROF

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.

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

1.3 Electrical properties

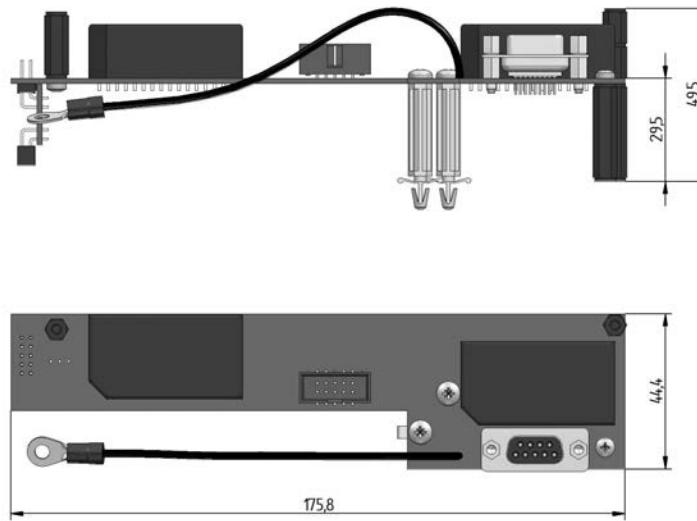
	Min	Type	Max	Unit
Profibus				
Transmission rate		1.5	12	Mbit/s
Galvanic separation			1000	V(rms)

1.4 Installation / Operating conditions

- Bus cables must be shielded.
- The shielding of bus lines must be earthed.
- 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#6#2 and EN61000#6#4.
It is not suitable for use in a domestic environment.

1.5 Dimensions and weight

GCM GMM/08 PROF

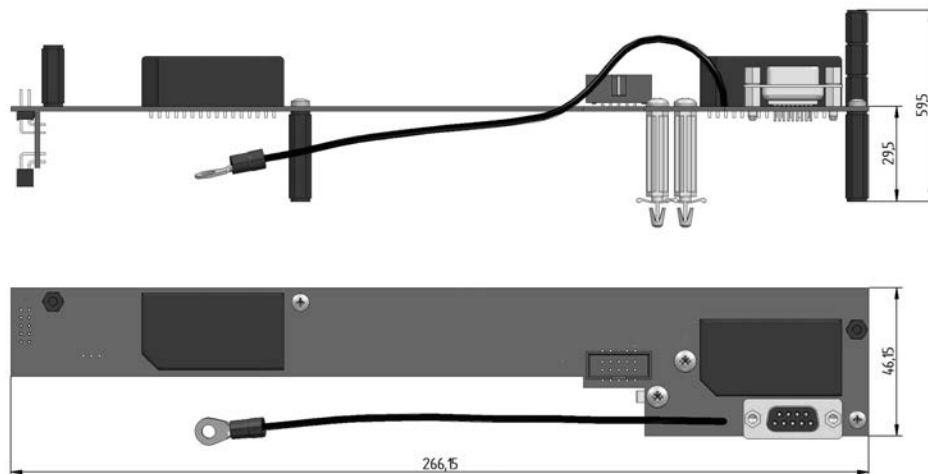


All values in mm

Weight:

ca. 65g

GCM GMM/16 PROF



All values in mm

Weight:

ca. 75g