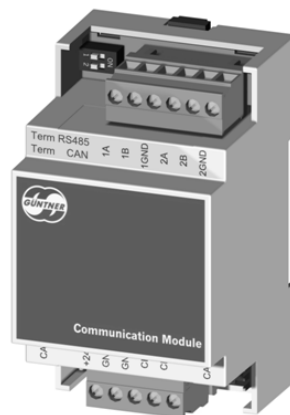


Datasheet GCMM.1

Modbus Communication Module



BAAN Nr.: 5204182

www.guentner.de

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1 GCMM.1

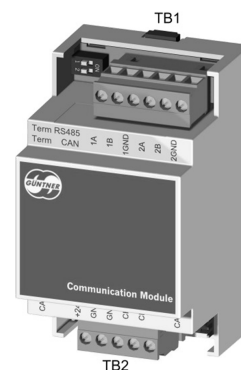
1.1 Functional Description

The GCMM.1 connects a Güntner Controller, e.g. a GRCE.1, to a network. The module enables reading data out of the Controller and remote controlling the Controller via an RS485 Interface.

The data transferred by the GCMM.1 as well as the used protocol are described in detail in the “Interface Specification: Modbus Parameter Specification for External Bus Communication of the Güntner Motor Management sincon (GMM sincon)”. The RS485 Interface is electrically isolated.

1.2 Connections

Apart from the RS485 (Modbus) Interface the Module uses a proprietary CAN Interface. The CAN Interface may only be connected to Modules that are explicitly approved by Güntner.



Upper row		
	Name	Description
	Term RS485	Dip switch for Modbus termination (1200hm)
	Term CAN	Dip switch for CAN bus termination (1200hm)
TB1	1A	Data+ connection for Modbus
	1B	Data- connection for Modbus
	1GND	GND for Modbus
	2A	Data+ for connection Modbus
	2B	Data- for connection Modbus
	2GND	GND for Modbus
Lower row		
	Name	Description
	CAN	CAN connector including Voltage supply ¹ ²
TB2	+24V	external Voltage supply
	GND	Ground
	GND	Ground
	CH	CAN High Signal ¹
	CL	CAN Low Signal ¹
	CAN	CAN connector including Voltage supply ¹ ²

*TB: Terminal Block

1) Only Güntner Equipment is allowed on this bus interface.

2) If the CAN Connector is used, no external Voltage supply needs to be connected.

1.3 Electrical Characteristics

	Min	Type	Max	Unit
Voltage supply DC	20	24	30	V
Current consumption		80	250	mA
RS485 Interface				
Termination (optional)		120		Ω
Electrical isolation			1000	Vrms
Data rate		9.6		kbit/s
Withstand voltage A/B	-18		+18	V
CAN Interface				
Termination (optional)		120		Ω
Electrical isolation		not available		
Data rate		125		kbit/s
Withstand Voltage CH/CL	-24		+24	V

1.4 Mounting / Operating conditions

- Bus cables (**Only use bus cables, e.g. HELUKABEL deviceNet PUR flexible 1x2xAWG24 + 1x2xAWG22, no unshielded wire!!**) must be shielded.
- The shield of bus cables must be grounded on one side only.
- Bus cables must be installed detachedly from mains cables or motor cables e.g. in different cable ducts.
- Operating Temperature: -20°C ~ +70°C
- Storage Temperature: 0°C ~ +50°C dry
- Degree of protection by enclosure: IP 20

1.5 Dimensions / Weight

All values in mm

Weight:

approx. 115g

