GLT-M002-GLTM

Application

The GSM modem GLT-M002-GLTM connects the building management system to the DDC system of the operational plant via the cellular network.

The DDC system can then be operated and monitored by the BMS system over the cellular network. Text messages and faxes can also be sent.

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Important Information Regarding Product Safety

Safety Instructions

This data sheet contains information on installing and commissioning the product "GLT-M002-GLTM". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

Legend

WARNING

Indicates a hazard of medium risk which can result in death or severe bodily injury if it is not avoided.

CAUTION

Indicates a hazard of low risk which can result in minor or medium bodily injury if it is not avoided.

NOTICE

Indicates a hazard of medium risk which can result in material damage or malfunctions if it is not avoided.

NOTE

Indicates additional information that can simplify the work with the product for you.

Notes on Disposal

For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

Item

GLT-M002-GLTM	Modem for the BMS system as an interface for the cellular network. Used for remote data transmission to the DDC system of the operational plant and for sending text messages and faxes.

Technical Data

Nominal voltage	AC 230 V, 50 Hz, 200 mA
Power supply	Power adapter
Outputs	AC 12 V, 700 mA
Dual-band	900/1800 MHz
Connection	Handled automatically by the program
Transmission rate (GSM)	9600 baud Automatic adjustment
Transmission protocol	V.110, V.32
Services/protocols	PPP, BACnet PTP, fax, SMS MO
BMS version	BMS version 8.2x and higher
Factory	Asynchronous data transmission
settings	Data bits 8 bits Parity N Stop bits 1
Ambient temperature	5 °C to 40 °C
Ambient humidity	0 to 80% r.h.; non-condensing
Weight	0.13 kg
Dimensions (WxHxD in mm)	65 x 74 x 33

Accessories (included in delivery)

- AC 240 V / DC 12 V power adapter, item no. GLT-M001-DDCM.001
- Antenna with magnetic base, approx. 2.4 m, item no. GLT2327.003
- Connection cable for BMS operator's terminal, 2 x 9-pin (plug/socket), 1.5 m, item no. 2316.001
- Adapter for BMS operator's terminal, 9/25-pin (plug/socket), item no. 2316.002
- Adapter for hostess 9/25-pin (plug/plug), item no. 2316.003

NOTE

Communication using a mixed modem configuration (e.g. analog landline modem to cellular modem) is dependent on the service provider and SIM card.

Connection

Front side

1 LED
2 Slot for SIM card
3 Release for SIM card

Reverse side

1 Connection for BMS
2 Connection for power adapter
3 Connection for antenna

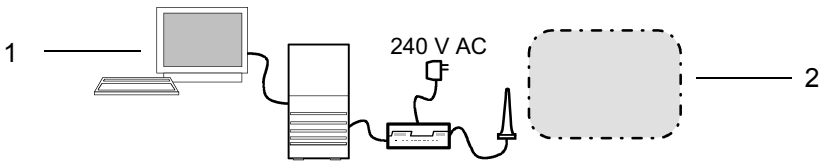
Installation

WARNING

Only qualified technicians may perform the electrical installation with the device connections.

Connections must be made according to the circuit diagram.

Connection Diagram

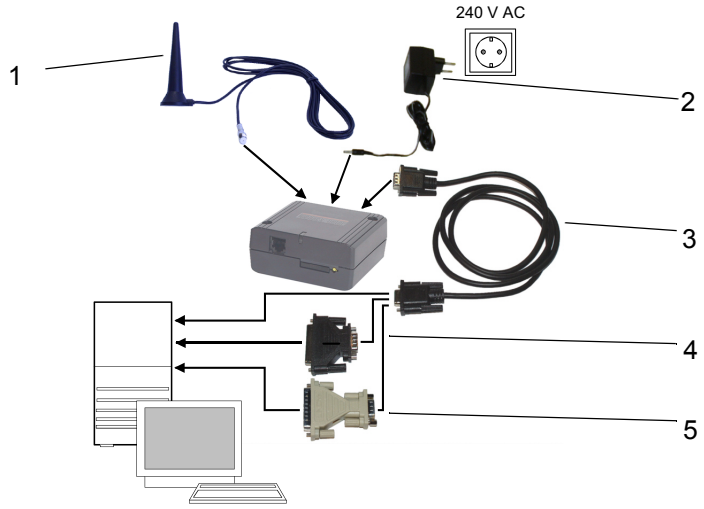


GLT-M002-GLTM

1 BMS system
2 Cellular network

Connection Notes

GLT-M002-GLTM



1 Antenna (item no. 2327.003)
2 Power adapter (item no. GLT-M001-DDCM.001)
3 Connection cable for BMS operator's terminal/DDC4000 9-pin (item no. 2316.001)
4 Adapter for BMS 9/25-pin (item no. 2316.002)
5 Adapter for hostess 9/25-pin (item no. 2316.003)

Commissioning

NOTICE

The commissioning technician/engineer initiates remote data transmission.

Further descriptions regarding the BMS and the DDC system can be found in the project planning documentation.

- The GLT-M002-GLTM must be configured using ModemTool version 2.1 and higher.
- Dialing only in data mode: AT DT N...
- When ordering the SIM card:
  - When used on a DDC3000/HRP/LRP/BMS, the SIM card must not be protected by a PIN.
  - Data services must be enabled; GSM service: “Mobile terminated circuit-switched data (CSD)” with additional data telephone number.
  - For more details on support functions of the GSM modem, see chapter 4.7.1 of the BMR project planning documentation.
  - SIM cards with PIN protection can be used with BMR and DDC4000.
- When dialing the cellular network modem, an analog connection must be forced using the “N” prefix.
- SIM cards with PIN protection can be used with BMR and DDC4000.

Checking Whether PIN Protection is Enabled for a SIM Card

NOTICE

SIM cards with PIN protection must not be used for DDC3000/HRP/LRP/BMS as the PIN needs to be entered again after a power failure. PIN protection must be deactivated using a suitable cellular phone.

You can configuration or check the modem using AT commands with a terminal program (e.g. HyperTerminal or qtalk [command: qtalk -m /dev/ser1]).

Each command must be confirmed with the “Enter” key after input.

Enter:	at + cPIN?	(PIN is queried)
Answer:	+ cPIN: READY	(no PIN is required in this case)
Answer:	+ cPIN: SIM PIN	(a PIN must be entered)
Enter:	at + cPIN = 0123	(PIN 0123 is entered)

DDC4000 and BMR check the PIN automatically.

LED Description

LED off	Device switched off
LED lit for 2 seconds	Switch on/reset
Rapid flashing	Network search (no SIM card, no PIN entered, no network found)
Slow flashing (every 2 seconds)	Logged into network
LED lit constantly	Connection