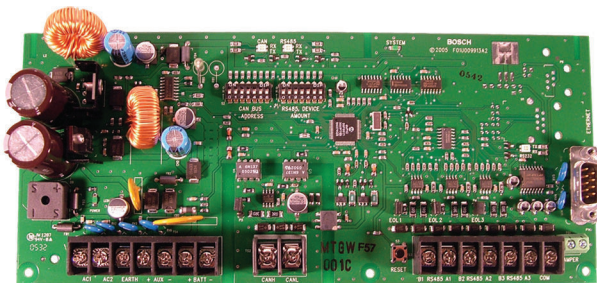


MTGW CAN-RS-485 Bus Gateway

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Acts as device interface between CAN bus and RS-485 bus
- ▶ Provides three separate RS-485 buses supporting 120 devices per MTGW
- ▶ Provides 64-event buffer
- ▶ Supports firmware upgrades through MTRAM

The MTGW CAN RS-485 Bus Gateway is used in Bosch Security Systems, Inc. Multi-tenant Systems (MTS) to convert data sent over an RS-485 bus into a format usable by a Controller Area Network (CAN) bus and to convert CAN bus data into a format usable by the RS-485 bus. This data includes events that occur at devices attached to an RS-485 bus and commands sent from the Multi-tenant Central Receiver (MTR) to the devices.

The MTGW buffers up to 64 events for conversion. It also monitors the connection status of the entire CAN and RS-485 nodes. Each MTGW has three separate RS-485 buses. The MTGW has one RS-232 interface for upgrading firmware.

Each MTGW supports up to 120 RS-485 devices. Acceptable devices include the IUI-DS12R Series Twelve-zone Keypad Controllers, DS6R2 Keypad Controller, MT1-1 Single-zone Input Module, MT1-8 Eight-zone Input Module, ICP-MT1-2 Two-zone Input Module, ICP-MT2-8 Eight-relay Output Module, and ICP-MT3-1 One-input/One-output Module.

Functions

MTRAM Software

MTRAM programming software is provided as a separate tool on the *Multi-tenant Software (MTSW) CD* (F01U0011231). This application software runs on a PC

using a Windows 98/2000/XP operating system. It provides a programming interface with instructions for upgrading system firmware.

Installation/configuration notes

Wiring Considerations

CAN Bus Wiring

The CAN bus connects to the MTR with at least 1.5 mm (16 AWG) shielded twisted-pair wire with a maximum length of 2000 m (6500 ft).

RS-485 Bus Wiring

Use at least 1.0 mm (20 AWG) shielded twisted-pair wire with a maximum length of 1200 m (3900 ft). The RS-485 bus wiring status is supervised.

Device Wiring

Use wiring as specified by the device's installation instructions. Terminate the sensor loop with a 47 kΩ EOL resistor.

Parts included

Quant.	Component
1	MTGW Multi-tenant CAN/RS-485 Gateway
1	Enclosure with built-in transformer
1	Literature, Installation Guide

Technical specifications

Electrical

Voltage:	18 VDC from transformer
Current (accessory output):	500 mA
Battery (backup):	Sealed lead-acid; Recommended: 12 VDC, 7 Ah Minimum required: 12 VDC, 3 Ah

Environmental

Environmental Protection:	DIN IEC 721-3-3, Class 1; For indoor use
Relative Humidity:	90% maximum, non-condensing
Temperature (operating):	-10°C to +50°C (+14°F to +122°F)
Temperature (storage):	-10°C to +55°C (+14°F to +131°F)

Mechanical

Dimensions (HxWxD):	260 mm x 303 mm x 80 mm (10.25 in. x 12 in. x 3 in.)
---------------------	---

Trademarks

Due to the nature of this material, this document refers to hardware and software products by their trade names. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies in one or more countries. It is not Bosch's intent to use any of these names generically. The reader is therefore cautioned to investigate all claimed trademark rights before using any of these names other than to refer to the product described.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries

Ordering information

MTGW CAN-RS-485 Bus Gateway

Enables communication between a Controller Area Network (CAN) bus and an RS-485 bus.

Order number **MTGW**

Represented by:

Americas:

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com