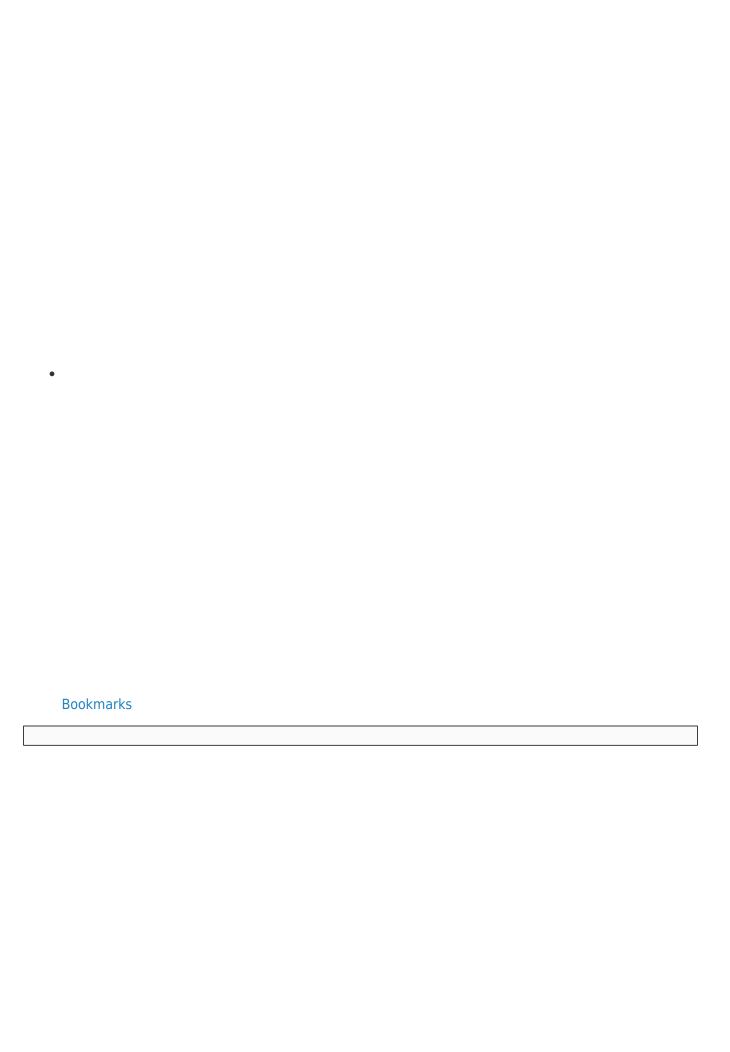
# TOSHIBA

Toshiba RS4002Z-0 Instruction Manual

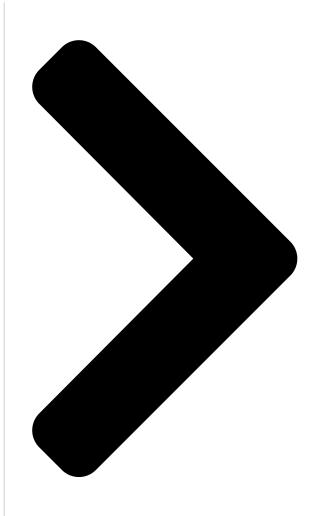
Rs485 converter unit

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# RS4956686 erter Unit Instruction Manual

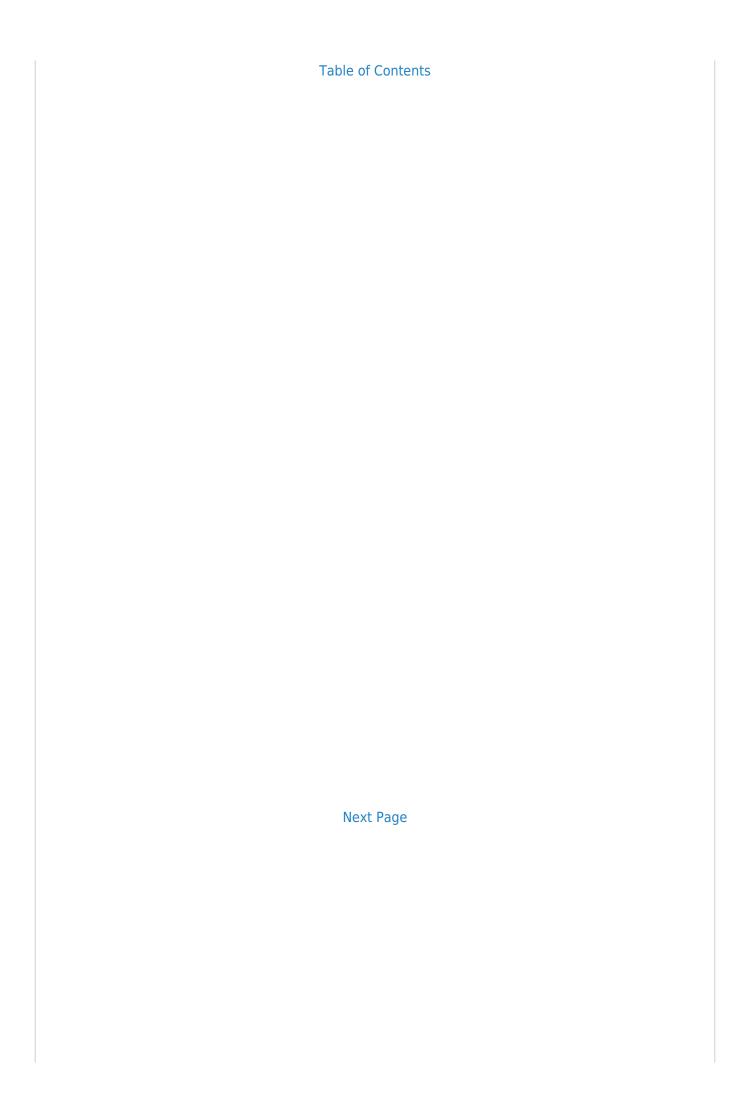
- 1. Make sure that this instruction manual is delivered to the end user of the RS485 converter unit.
- 2. Read this manual before installing or operating the RS485 Converter unit. And keep it in a safe place for reference.
- © TOSHIBA SCHNEIDER INVERTER CORPORATION 2001

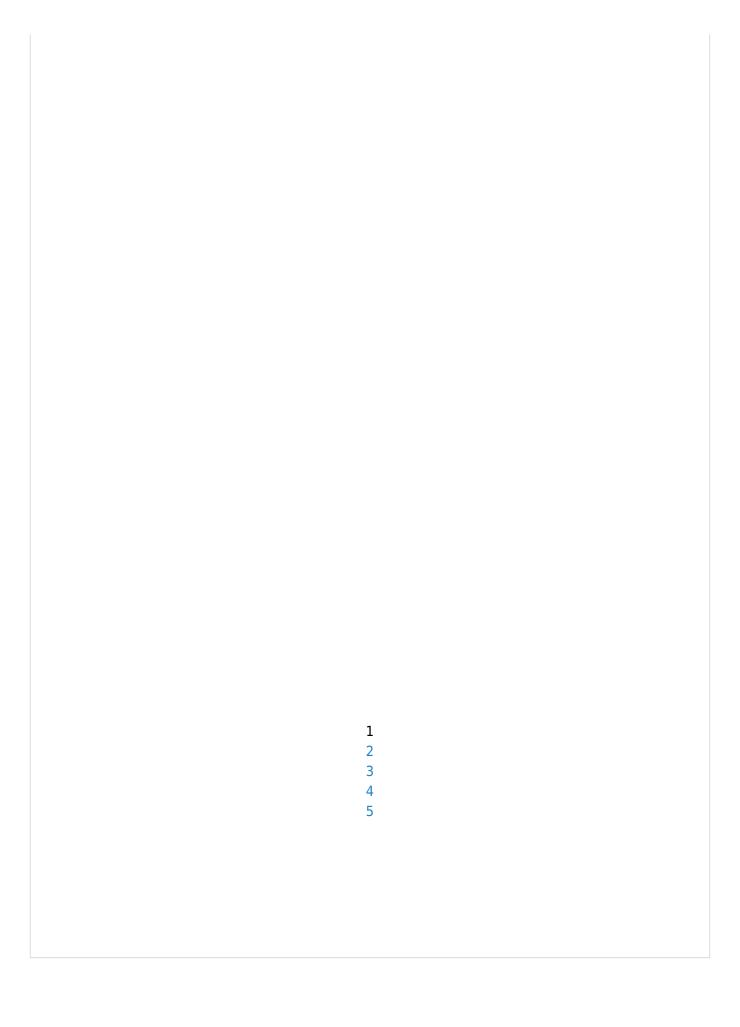
RS4002Z-0

NOTE

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E6580938





#### Related Manuals for Toshiba RS4002Z-0

Media Converter Toshiba RS-485 Installation Manual

Usb to rs-485 converter port verification (8 pages)

Media Converter Toshiba RS4001Z-0 Instruction Manual

Rs485 converter unit (10 pages)

Media Converter Toshiba TOSVERT VF-nC3 Instruction Manual

(66 pages)

Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual

(32 pages)

Media Converter Toshiba LF620 Instruction Manual

Electromagnetic flowmeter converter (160 pages)

Toshiba VEC008Z - Digital Encoder Manual

(article)

Media Converter Toshiba TOSVERT VF-S15 Series Manual

(51 pages)

Media Converter Toshiba VEC008Z Installation Manual

Digital encoder (2 pages)

Media Converter Toshiba LF620 Manual

Electromagnetic flowmeter converter (8 pages)

Media Converter Toshiba TOSVERT VF-AS1 Instruction Manual

Expansion io card option 2 (19 pages)

Media Converter Toshiba TOSVERT VF-AS3 Instruction Manual

Rs485 communication function (20 pages)

Media Converter Toshiba USB001Z Instruction Manual

Usb-to-serial conversion unit (8 pages)

Media Converter Toshiba USB001Z Instruction Manual

Toshiba usb-to-serial conversion unit instruction manual (17 pages)

Media Converter Toshiba L5232 Instruction Manual

Electromagnetic flowmeter converter (174 pages)

# Summary of Contents for Toshiba RS4002Z-0

<u>Page 2</u> E6580938 Safety precautions On the inverter and in its instruction manual, important information is contained for preventing injuries to users and damages to assets and for proper use of the device. Read the instruction manual attached to the inverter along with this instruction manual for completely understanding the safety precautions and adhere to the contents of these manuals.

Page 3 E6580938 ■Wiring Danger ▼ Turn off input power before wiring. Wait at least ten minutes and check to make sure that the charge lamp (on the inverter main unit) is no longer lit. Mandatory ▼ Tighten the screws on the terminal board to specified torque. If the screws are not tightened to the specified torque, it could lead to fire.

Page 4 E6580938 Introduction Thank you for purchasing the "RS485 Converter Option Unit(RS4002Z)" for TOSVERT series inverter. Using this RS485 Option Unit, a communication between the inverter, which has the common serial option (communication) connector, and a host computer is available. Please read the entire manual carefully before attempting to control your inverter via RS485 serial connection.

# Page 5: Table Of Contents

E6580938 Table of Contents 1. OVERVIEW

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# Page 6: Overview

E6580938 1. Overview By using RS485 Converter Unit, a network can be constructed that allows communication between a host computer or PLC etc. and multiple inverter units. A maximum of 32 Option Units can be connected on the same network. And 8 inverters can be connected to one RS485 Converter Unit.

### Page 7: Names And Functions Of Main Parts

E6580938 Names and functions of main parts The outline view of the RS485 converter unit and the names of each part <How to remove the setting switch cover> Insert a flat-head screwdriver into a slit marked with  $\Delta$  on the right-hand side of the unit to remove the cover.

## Page 8: Connection With Equipment

E6580938 Connection with equipment Connect the RS485 converter unit with inverters as follows: (1) Turn off input power of the inverter and wait at least ten minutes and check to make sure that the charge lamp is no longer lit. (2) Set the communication speed, bit length and wiring method (4-wire or 2-wire) using the switches of the RS485 converter unit.

#### Page 9: Installation Of Rs485 Converter Unit

E6580938 4.1. Installation of RS485 converter unit Install the unit on the panel of a cabinet etc. and secure the unit with two M4 screws. Install the cables (connection cables between inverters and converter unit, and RS485 communication cable). Separate the cables at least 20 cm from the main circuit cables. Do not bundle them together. Attach the cables to the wall inside the cabinet etc.

#### Page 10: Wiring Of Rs485 Communication Cable

E6580938 4.3. Wiring of RS485 communication cable Observe the following when wiring is carried out: ♦ Use shielded twist cables of 0.2 to 2.5 mm for communication cables. Select wire size depending on the transmission distance referring to the table below. Use the same type of wires inside the system.

#### Page 11: Connection Of Rs485 Communication Cable

E6580938 Connection of RS485 communication cable 4.3.1. Refer to the following together with items described above as to cable connection to terminal block. • Do not connect the ground of shield to power ground such as that of the inverter. •...

#### Page 12: Dimensions

#### Page 13: Communication Parameters

Need to set the inverter number in the transmission format. Specifications Item Specifications Part number RS4002Z-0 Indoors. Altitude of less than 1000m. (3280ft) Service environment Must not be exposed to direct sunlight, subjected to corrosive and/or explosive gases, vapor,

dust, chips, cutting oil, grinding agent, etc.