TOSHIBA

Toshiba BMS-IFDD02E2 Installation Manual

Digital input/output relay interface

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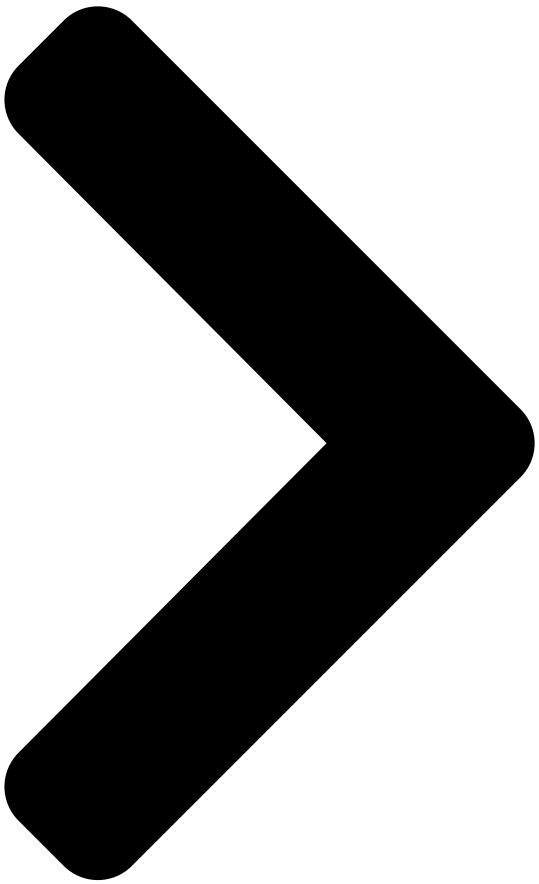

INSTALLATION MANUAL

DIGITAL INPUT/OUTPUT RELAY INTERFACE

TOSHIBA

BMS-IFDD 02 E 2

• Thank you very much for purchasing this TOSHIBA Digital Input/Output Relay Interface.
• Please read this manual carefully beforehand for proper installation of the relay interface.

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Related Manuals for Toshiba BMS-IFDD02E2

Recording Equipment Toshiba BMS-IFWH4E2 Installation Manual

Energy monitoring relay interface (12 pages)

Recording Equipment Toshiba BMS-IWF0320E Installation Manual

Smart device control interface (15 pages)

Recording Equipment Toshiba BMS-IFMB0AWR-E Installation Manual

Mb interface (4 pages)

Recording Equipment Toshiba BMS-IFMB1280U-E Installation Manual

(16 pages)

Recording Equipment Toshiba BMS-IFMB1280U-E Installation Manual

Modbus (22 pages)

Recording Equipment Toshiba BMS-IFBN1280U-E Installation Manual

Central control device for commercial use bn interface (20 pages)

Recording Equipment Toshiba BMS-IFBN1280U-E Installation Manual

Bn interface (52 pages)

Recording Equipment Toshiba BMS-IFKX0AWR-E Installation Manual

Kn interface (4 pages)

Recording Equipment Toshiba BMS-IFDD03E Installation Manual

(44 pages)

Recording Equipment Toshiba Black Pear Installation And User Manual

Bms interface for toshiba air-conditioning (40 pages)

Recording Equipment Toshiba Carrier RBM-Y0611F4PUL Installation Manual

Multi port flow selector unit (32 pages)

Recording Equipment Toshiba RBM-Y1123FE Installation Manual

Flow selector unit (16 pages)

Recording Equipment Toshiba OIS PLUS Series Manual

Operator interface stations (24 pages)

Recording Equipment Toshiba RAV-DXC010 Installation Manual

Lc dx interface (28 pages)

Recording Equipment Toshiba ESTiA Owner's Manual

Wireless interface for air to water heat pump (20 pages)

Recording Equipment Toshiba TCS-NET Service Manual

General purpose interface (38 pages)

Summary of Contents for Toshiba BMS-IFDD02E2

Page 1: Table Of Contents

DIGITAL INPUT/OUTPUT RELAY INTERFACE BMS-IFDD 02 E 2 • Thank you very much for purchasing this TOSHIBA Digital Input/Output Relay Interface. • Please read this manual carefully beforehand for proper installation of the relay interface. CONTENTS Precautions for Safety .....1 Introduction .....

Page 2: Precautions For Safety

Precautions for Safety • Read these “Precautions for Safety” carefully before installation. • The

precautions described below include important items regarding safety. Observe them without fail. • After the installation work, perform a trial operation to check for any problem. Follow the Owner's Manual to explain how to use and maintain the unit to the customer.

Page 3: Introduction

Introduction nApplications/Functions/Specifications Applications/Functions/Specifications • Applications The Digital Input/Output Relay Interface is used to control air conditioners by interlocking them with electric lock signals and fire alarm signals, and to transmit air conditioner failures to other devices. Functions • The Digital Input/Output Relay Interface connects non-voltage contact signals, transmits their input status to the Touch Screen Controller, and outputs signals from the contacts (open collector) according to the command from the Touch Screen Controller.

Page 4: Before Installation

Before Installation Check the following package contents. Quantity Remarks Item DIGITAL INPUT/OUTPUT RELAY INTERFACE Installation Manual M4 x 12mm tapping screws Screw Pin terminal Use the following wiring materials to connect signal lines and power lines. (Procured on site.) Description Line Type 2-core shield wire...

Page 5: Installation

Installation Digital Input/Output Relay Interface Installation Method and Orientation There are five installation methods for this relay interface as shown below, surface mount or wall mount. Use the attached screws. No good REQUIREMENT Do not install the unit in any of the following places. •...

Page 6: Conection Of Power Cables/Earth Wires/Singl Wires

Connection of Power cables/Earth wires/ Signal wires CAUTION The RS-485 signal wire has polarity. Connect A to A, and B to B. If connected with incorrect polarity, the unit will not work. REQUIREMENT Disconnect the appliance from the main power supply. This appliance must be connected to the main power supply by a circuit breaker or switch with a contact separation of at least 3mm.

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Connection of Power cables/Earth wires/ Signal wires (continued) Wiring Connection CAUTION If an inductive load (relay coil) or a bulb is connected, a surge voltage or rush current will be generated. Take adequate measures against surge voltage or rush current. The following describes wiring connections of the Digital Input/Output Relay Interface when it is used in the air conditioner control system.

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Connection of Power cables/Earth wires/ Signal wires (continued) Connection diagram Connect the shield wire of the two wires TCS-NET RELAY INTERFACE DI 1 Input contact 1 DI 2 Input contact 2 DI 3 Input contact 3 ADDRESS Input contact 4 DI 4 Input contact 5 DI 5...

Page 9: Setting

Setting Address set switch 1 - 4 Address 0,5 - F Not used 1 2 3 4 Operating mode set switch (0 usually) Test switch (all OFF usually) Test switch Reset switch LED1 Power indicator LED2 RS-485 communication status indicator LED3 Not used LED4...

Page 10: Trial Operation Check

Trial Operation Check Before starting trial operation Turn on the power of the Digital Input/Output Relay Interface after all cable connections and settings are completed. Turn on power of the air conditioning control system. Trial operation • Confirming external input connection In the test mode, when the external inputs connected to the input terminals DI-1 to DI-8 are ON, the respective LEDs will goes on so you can confirm the connection.

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Memo...

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