



Toshiba BMS-IFDD03UL Installation Manual

Digital input / output relay interface

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DIGITAL INPUT / OUTPUT RELAY INTERFACE

Installation Manual

Model name:

BMS-IFDD02UL

TOSHIBA
Carrier



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Summary of Contents for Toshiba BMS-IFDD03UL

[Page 1](#) DIGITAL INPUT / OUTPUT RELAY INTERFACE Installation Manual Model name: BMS-IFDD03UL...

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Installation Manual Digital Input / Output Relay Interface • Thank you very much for purchasing this TOSHIBA / Carrier Digital Input / Output Relay Interface. • Please read this manual carefully beforehand for proper installation of the relay interface. Contents 1 Precautions for safety .

[Page 3: Precautions For Safety](#)

Installation Manual Digital Input / Output Relay Interface Precautions for safety • Read these "Precautions for Safety" carefully before installation. • The precautions described below include important items regarding safety. Observe them without fail. Understand the following details

(indications and symbols) before reading the body text, and follow the instructions.

[Page 4: Introduction](#)

Installation Manual Digital Input / Output Relay Interface Introduction □ Applications / functions / specifications Applications • The Digital Input / Output Relay Interface is used to control air conditioners by interlocking them with electric lock signals, and to transmit air conditioner failures to other devices. Functions •...

[Page 5: Before Installation](#)

Installation Manual Digital Input / Output Relay Interface Before installation Check the following package contents. Item Quantity Remarks Digital Input / Output Relay Interface Installation Manual Screw 5/32" x 0.47" (M4 x 12 mm) tapping screws Pin terminal Cable clamp Use the following wiring materials to connect the signal lines and power lines.

[Page 6: Connection Of Power Cables / Earth Wires / Communication Cables](#)

Installation Manual Digital Input / Output Relay Interface Connection of power cables / earth wires / communication cables CAUTION • The RS-485 communication cable has polarity. Connect A to A, and B to B. If connected with incorrect polarity, the unit will not work.

[Page 7](#) Installation Manual Digital Input / Output Relay Interface □ Wiring connection The following describes a connection example of Digital Input / Output Relay Interface. 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.

[Page 8](#) Installation Manual Digital Input / Output Relay Interface □ Connection diagram Smart BMS The RS-485 signal Manager wire has polarity A and B. Be careful when connecting the wire. Input contact 1 Input contact 2 Input contact 3 Input contact 4 Input contact 5 The RS-485 communication cable must Input contact 6...

[Page 9: Setting](#)

Installation Manual Digital Input / Output Relay Interface Setting Address set switch LED4 LED2 Address LED5 LED3 LED1 0, 9-F Not used Operating mode set switch (0 usually) 1 2 3 4 Test switch (all OFF usually) Test switch Reset switch RS-485 terminator resistor select switch LED9 LED7...

[Page 10: Test Run](#)

Installation Manual Digital Input / Output Relay Interface Test run □ Before starting test run 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. □...

[Page 11](#) Installation Manual Digital Input / Output Relay Interface Checking the RS-485 communication status Use LED2 for checking the RS-485 communication status. When RS-485 communication with Smart BMS Manager is normal, LED2 will blink. Normal operation Abnormal operation LED1 Power indicator LED2 RS-485 communication status indicator Blinking...

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