

TOSHIBA

Toshiba BMS-IFWH5UL Installation Manual

Energy monitoring relay interface

1
2
3
4
5
6
7
8
9
10
11
12

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ENERGY MONITORING RELAY INTERFACE

Installation Manual

Model name:

BMS-IFWH5UL

Carrier



[Next Page](#)

1
2
3
4
5

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Summary of Contents for Toshiba BMS-IFWH5UL

[Page 1](#) ENERGY MONITORING RELAY INTERFACE Installation Manual Model name: BMS-IFWH5UL...

[Page 2](#) Installation Manual Energy Monitoring Relay Interface • Thank you very much for purchasing this TOSHIBA / Carrier Energy Monitoring Relay Interface. • Please read this manual carefully beforehand for proper installation of the relay interface. Contents 1 Precautions for safety2 2 Introduction .

[Page 3](#) Installation Manual Energy Monitoring 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](#) Installation Manual Energy Monitoring Relay Interface Introduction □ Applications / functions / specifications Applications • The Energy Monitoring Relay Interface is used to measure and distribute the power of the air conditioner. Functions • The interface calculates output power pulses with connected power meters, and then sends the calculation result to the Smart BMS Manager.

[Page 5](#) Installation Manual Energy Monitoring Relay Interface Before installation Check the following package contents. Item Quantity Remarks Energy Monitoring 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. (Procured on site) Line Description Type...

[Page 6](#) Installation Manual Energy Monitoring 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 Energy Monitoring Relay Interface □ Wiring connection The following describes a connection example of Energy Monitoring Relay Interface. Shield earthing • The RS-485 communication cable must be earthed on Smart BMS Manager. It does not have to be earthed on Energy Monitoring Relay Interface.

[Page 8](#) Installation Manual Energy Monitoring Relay Interface □ Connection diagram Connect the shield Smart BMS wire of the two Manager wires The RS-485 communication cable has polarity A and B. Be careful when connecting Power meter 1 the wire. Power meter 2 Power meter 3 Power meter 4 The RS-485 communication...

[Page 9](#) Installation Manual Energy Monitoring Relay Interface Setting Address set switch LED4 LED2 LED5 LED3 LED1 Address 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 120 ohm Open LED1...

[Page 10](#) Installation Manual Energy Monitoring Relay Interface Test run □ Before starting test run Turn on the power of the Energy Monitoring Relay Interface after all wire connections and settings are completed. Turn on power of the air conditioning control system. □...

[Page 11](#) Installation Manual Energy Monitoring Relay Interface MEMO

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[Page 12](#) DE93329101-1...