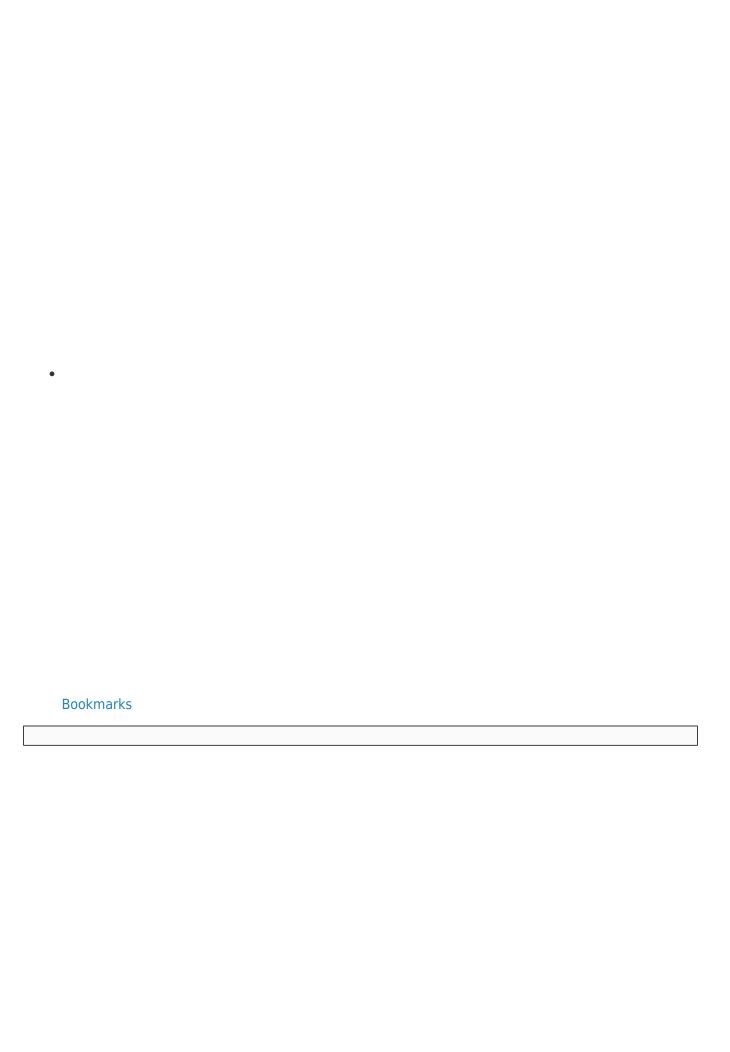
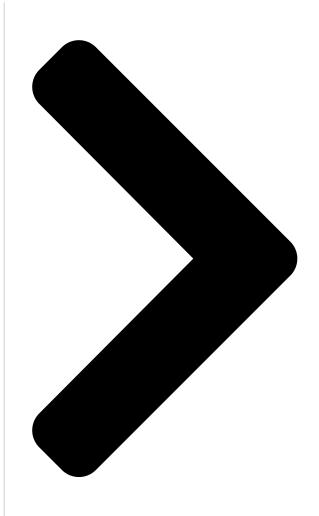
## TOSHIBA

Toshiba BMS-IFWH5UL Installation Manual

Energy monitoring relay interface



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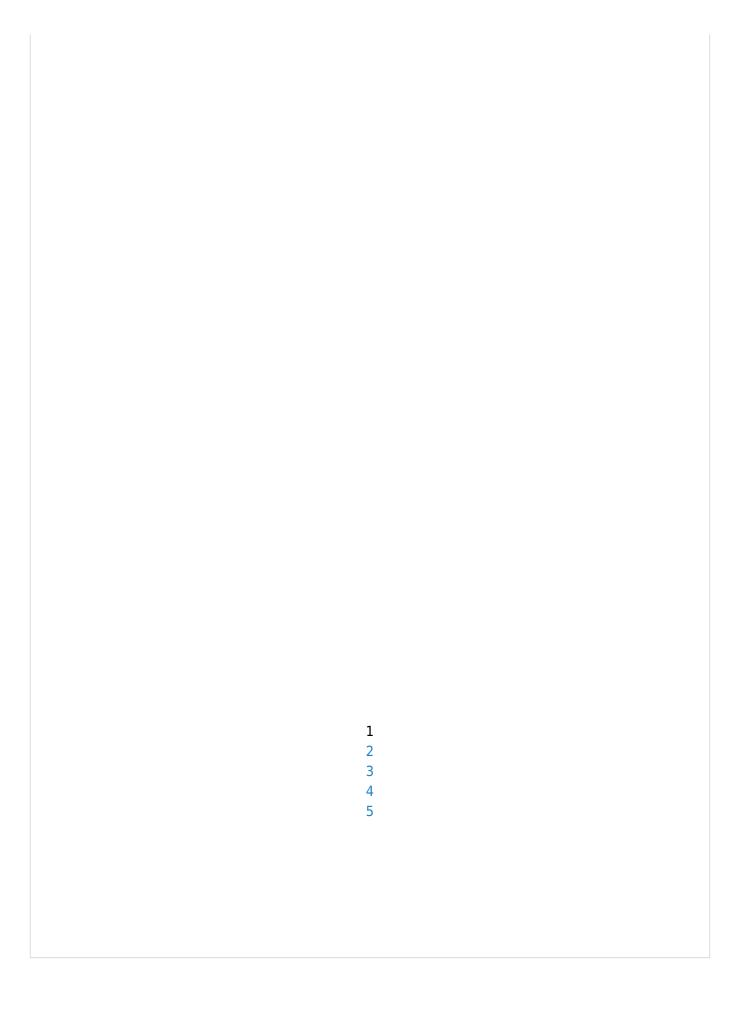


ENERGY MONITORING RELAY INTERFACE

## Instrosting Manual

Model name:
BMS-IFWHGTTier





## Related Manuals for Toshiba BMS-IFWH5UL

Relays Toshiba BMS-IFWH5E Installation Manual

Energy monitoring relay interface (22 pages)

Relays Toshiba BMS-IFDD03UL Installation Manual

Digital input / output relay interface (12 pages)

Relays Toshiba GRD130 Manual

Gr series numerical relay (16 pages)

Relays Toshiba GRZ100 B Series Instruction Manual

Distance relay (447 pages)

Relays Toshiba GRD150 Manual

Gr series numerical relay feeder manager (20 pages)

Relays Toshiba GRZ100 Manual

Gr series numerical relay (41 pages)

Relays Toshiba GRZ100-211B Instruction Manual

Distance relay (463 pages)

Relays Toshiba GR200 Series Instruction Manual

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Relays Toshiba GRT100 Series Instruction Manual

Transformer protection relay (270 pages)

Relays Toshiba GRD150 Series Instruction Manual

Feeder manager (427 pages)

Relays Toshiba GRD110 Manual

Gr series numerical relay (21 pages)

Relays Toshiba S2E21 Instruction Manual

Motor protection relay (74 pages)

Relays Toshiba GRL150-100 Series Instruction Manual

Line differential relay (267 pages)

Relays Toshiba GRL100-101A Instruction Manual

Line differential relay (392 pages)

Relays Toshiba GRD130-210 Instruction Manual

Under/overvoltage protection relay (183 pages)

## Summary of Contents for Toshiba BMS-IFWH5UL

 $\underline{ ext{Page 1}}$  ENERGY MONITORING RELAY INTERFACE Installation Manual Model name: BMS-IFWH5UL...

<u>Page 3</u> 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.

<u>Page 5</u> 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...

<u>Page 6</u> 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.  $\sqcap$ ...

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.

<u>Page 8</u> 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...

<u>Page 10</u> 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. []...

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