

# Toshiba RKP004Z Instruction Manual

Lcd remote keypad



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1. Please see to it that this instruction manual reaches the actual user of the LCD remote keypad without fail.

2. Be sure to read this instruction manual carefully before installing and using the LCD remote keypad. After reading the manual, be sure to store it.

# LCD Remote Keypad

## Instruction Manual

RKP004Z

Notice

E6581323⑦

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### [Keypad Toshiba Compliant Manager BMS-CM1280TLE Installation Manual](#)

Compliant manager bms-cm1280tle (24 pages)

## Summary of Contents for Toshiba RKP004Z

[Page 1](#) E6581323© LCD Remote Keypad Instruction Manual RKP004Z Notice 1. Please see to it that this instruction manual reaches the actual user of the LCD remote keypad without fail. 2. Be sure to read this instruction manual carefully before installing and using the LCD remote...

[Page 2](#) Introduction Introduction Thank you for purchasing a LCD remote keypad (RKP004Z) designed specifically for Toshiba VF-AS1/PS1/MB1 series industrial inverters. The use of this LCD remote keypad (also referred to as the unit, the product and the remote keypad) equipped with a high-resolution liquid crystal display with back lighting makes it easier to set parameters or monitor the operation (Note: operation or some language is not supported with some model of unit or some software version.).

[Page 3](#) You can install the LCD remote keypad to the inverter or operate the inverter by remote control combining optional products. □ For details, refer to “2. Installing the LCD remote keypad.” «Installation on an inverter (no optional products required) » (VF-MB1 can't do it.) RKP004Z «Installation on a board» RKP004Z SBP006Z CAB0□□□□...

[Page 4](#) Introduction □ Supported unit When using LCD remote keypad, please attach the following unit. Support Copy Guidance Model Language restriction Version function function Chinese Deutsch V136 or × V134 or more Portuguese V136 or less more V150 or less Chinese Deutsch V614 or ×...

### [Page 5: Safety Precautions](#)

Safety precautions Safety precautions On the inverter and in its instruction manual, important information is contained for preventing injuries to users, damages to assets, and for proper use of the device. Read the instruction manual attached to the inverter along with this instruction manual to completely understand the safety precautions, the symbols and indications shown below.

[Page 6](#) Operation cannot be stopped immediately by the inverter or Remote Keypad alone, thus risking an accident or injury. ●Use the Toshiba-specified cable for connecting this optional unit. (Refer to page ii.) The use of any other option may result in an accident.

[Page 7](#) Safety precautions □ Operations Warning ●Do not apply a dropping shock or other physical shocks. Otherwise, damage or malfunction will result. ●Do not pull on the cable and connector It may cause damage or error. ●Even if this product is deactivated by an unusual event such as tripping, an Prohibited operating error, power outage, etc.

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2.3 Remote control (Use option) .....	2-3

## [Page 9: Names And Functions](#)

1. Names and functions 1. Names and functions (3) (4) (5) (11) (11) (10) (1) LCD display For an explanation of windows displayed, see the next page. (2) to (5) [F1] to [F4] function keys The function of each function key varies depending on the window currently displayed.

[Page 10](#) 1. Names and functions In a value setting window, turn the dial clockwise or counterclockwise to increment or decrement the value displayed, and press the dial to confirm the value specified. Turn the dial clockwise (+) to increment the value. Turn the dial counterclockwise (-) to decrement the value.

[Page 11](#) 1. Names and functions □ About the change of parameter settings By the VF-AS1/PS1's default, the inverter is set with parameters to the mode in which it controls the operation of the machine via a terminal board. Moreover, the inverter is set so that the switching between forward run and reverse run cannot be performed using its operation panel.

## [Page 12: Installing The Lcd Remote Keypad](#)

2. Installing the LCD remote keypad 2. Installing the LCD remote keypad The LCD remote keypad can be installed on only VFAS1/PS1 and on the board (optional). Using this LCD remote keypad along with a dedicated interconnect cable makes it possible to operate the inverter by remote control (optional). Because the LCD remote keypad can't be installed on VF-MB1, please use option board or dedicated interconnect cable.

## [Page 13: Installing The Remote Keypad To The Board \(Use Option\)](#)

2. Installing the LCD remote keypad 2.2 Installing the remote keypad to the board (Use option) The remote keypad can be mounted on a board by means of an IP54 attachment (optional). In addition, if an IP65 attachment (optional) is used in combination with an IP54 attachment, the remote keypad can be installed where it may be splashed with water.

## [Page 14: Remote Control \(Use Option\)](#)

2. Installing the LCD remote keypad 2.3 Remote control (Use option) Connecting the remote keypad to the inverter unit with a dedicated interconnect cable and a connector (optional) makes it possible to operate the inverter from a distant point up to 10m from it. Warning ●...

## [Page 15: Setting To Be Made When Turning On The Unit For The First Time](#)

4. □□□□□□□□□□ 3. Setting to be made when turning on the unit for the first time When the unit is turned on at the first time after purchase, the Language Selection window shown below appears on the LCD panel. In this window, select the language you want to display on the screen.

[Page 16](#) 4. □□□□□□□□□□ Select/confirm to desired region by control dial. Initial Setup Mode "Setting for~" and "Initializing" are flash alternately about 5 second on the Top View Region setting Mode. 0: Start setup menu □ 1: Japan □ (At the VF-MB1) 2: North America □...

## [Page 17: About Available Modes](#)

5. □□□□□□□□ 4. About available modes The LCD remote keypad offers the following three modes, just as with the inverter's main operation panel. (1) Top View Mode When the remote keypad is turned on, it enters this mode first. The top window displays the operating status. In this mode, you can set a panel operation frequency, use a function key as the EASY key, and so on.

## [Page 18: Operation In Top View Mode](#)

5. Operation in Top View Mode 5. Operation in Top View Mode When the remote keypad is turned on, it enters this mode first, which allows you to monitor the operating status, set an operation frequency, use a function key as the EASY key, and switch between languages.

## [Page 19: Using An Easy Key Function](#)

5. Operation in Top View Mode After selecting the position of a figure you want Basic Parameters to change, specify/confirm another figure with the control dial. Panel frequency (In this example, a frequency of 30.0Hz is specified.) Output frequency 30.0Hz Functions of function keys The functions keys allow you to select the position min=0.0...

[Page 20](#) 5. Operation in Top View Mode (1) Function of switching between Quick mode and Standard Setting mode <Standard Setting mode selected when power is turned on (parameter PSEL=0)> • When power is turned on, "Quick" is displayed. (If the [F1] key is not pressed.) When the unit enters Parameter Setup Mode in this situation, the ordinary top window of Parameter Setup Mode appears.

## [Page 21: Selecting A Language To Be Displayed](#)

5. Operation in Top View Mode (4) Peak/Minimum Hold setting • "Update" is displayed. (If the [F1] key is not pressed.) The instant the [F1] key is pressed in this situation, a measurement for peak hold/minimum hold starts. When the [F1] key is pressed, " Update "...

## [Page 22: Performing Jog Run](#)

5. Operation in Top View Mode 5.4 Performing jog run When Panel Jog Run is selected (parameter f262=1, cmod=1), "JOG" is displayed in the lower right corner of the window. When "JOG" is displayed, jog run can be performed using the [F4] key. The switching to jog run cannot be performed during operation.

## [Page 23: Emergency Stop/Reset Operation](#)

5. Operation in Top View Mode 5.5 Emergency stop/reset operation To make an emergency stop or to reset the inverter, follow these steps. An emergency stop can be made when operation is performed with the terminal board (parameter cmod=0, 2, 3 or 4). Press the [STOP/RESET] key, which displays Top View Mode EOFF...

## [Page 24: Operation In Parameter Setup Mode](#)

6. Operation in Parameter Setup Mode 6. Operation in Parameter Setup Mode In this mode, you can set basic parameters and extended parameters. This mode also allows you to use the history function (inverter's parameter aul) and the changed parameter search function (inverter's parameter gr.u) easily by simply selecting the desired function from a menu.

## [Page 25: Setting A Basic Parameter](#)


6. Operation in Parameter Setup Mode 6.2 Setting a basic parameter When Quick mode is selected using the EASY key function, skip step 1. Go straight to step 2. Select/confirm "Basic parameters" using the Parameter Setup Mode control dial. Basic Parameters The Basic Parameters window appears.

## [Page 26: Use The Guidance Function \(Only Vf-Mb1\)](#)

6. Operation in Parameter Setup Mode ● Using the control dial, select/confirm the If the setting selected is changed by selecting a setting you want to change by selecting a menu item menu item or specifying a value. (In this example, "Panel / LCD-option" is Basic Parameters selected and confirmed or a frequency of CMOD...


## [Page 27: Setting An Extended Parameter \(F](#)

6. Operation in Parameter Setup Mode Select/confirm desire function using the control Basic Parameters dial. Selected guidance window appears. 0: No function 1: No function Functions of

function keys 2: Preset speed  : Displays the previous window. 3: Analog signal operation : Displays the next window.

## [Page 28: Setting An Extended Parameter \(A, C](#)

6. Operation in Parameter Setup Mode 6.5 Setting an extended parameter (a, c---) When used with a VF-MB1 inverter, you can set an a and c function. Select/confirm "Extended parameters (a, Parameter Setup Mode c---)" using the control dial. Extended Parameters (A, C---) The Extended Parameters (a, c---) window A900 : Input func target 11 appears.

[Page 29](#) 6. Operation in Parameter Setup Mode Search for the desired parameter by pressing Parameter Setup Mode the [F3] or [F4] function key repeatedly. Changed Parameters The title, function and current setting of the CMOd parameter selected are displayed. Command input mode Functions of function keys 1 :Panel / LCD-option : Brings you to the Top View Mode.

## [Page 30: Operation In Status Monitor Mode](#)

7. Operation in Status Monitor mode 7. Operation in Status Monitor Mode In this mode, you can monitor various kinds of statuses and information, such as the operating status of the inverter, information on the terminal board, and trip information. Status Monitor Mode Real-time information Rotative direction...

[Page 31](#) 7. Operation in Status Monitor Mode Table2. Monitor items for a VF-MB1 Display Items displayed Description of details Rotating direction Direction of rotation Set value and current value of parameter f711 Frequency command Set value and current value of parameter f712 Output current Set value and current value of parameter f713 Input voltage...


## [Page 32: Displaying Details Of An Item Monitored](#)

7. Operation in Status Monitor mode 7. 1 Displaying details of an item monitored Select/confirm the desired item using the Status Monitor Mode control dial. Output current (Ex. Select/confirm "Output current") The monitor window of the item selected appears. \* Depending on the item selected, no monitor window may be displayed.


## [Page 33: Operation In A Copy Function](#)

The copy function can be used when "Copy" is displayed on the upper part of the Function F3 key. The copy function works by the latest combination of LCD Remote Keypad (RKP004Z rev.2 or more) with the Inverter version of APP-CPU is V136 or more of VF-AS1, V614 or more of VF-PS1, V106 or more of VF-MB1.

## [Page 34: Copy To Lcd Remote Keypad](#)

8. Operation by a copy function 8. 1 Copy to LCD Remote Keypad Push the Function F3 key on an initial screen and the copy mode screen is displayed. It is not possible to drive with the [RUN] key in the following  screen display. Select the memory saving group using the Copy Mode Group selection...

## [Page 35: Copy To Inverter](#)

8. Operation by a copy function 8. 2 Copy to inverter There is no data in LCD remote keypad, and copy it to LCD remote keypad at the time of purchase. (Chap.: 8.1) Push the Function F3 key on an initial screen and the copy mode screen is displayed. It is not possible to drive with the [RUN] key in the following  screen display.

## [Page 36: Confirm A Memory Information](#)

8. Operation by a copy function 8. 3 Confirm a memory information There is no data in LCD remote keypad, and copy it to LCD remote keypad at the time of purchase. (Chap.: 8.1) Push the Function [F3] key on an initial screen and the copy mode screen is displayed. Select the memory saving group that you Copy Mode Group selection...

## [Page 37: List Of Function Key Functions](#)

10. Warranty 9. List of function key functions The abbreviations and graphic symbols displayed at the bottom of the window refer to the functions of function keys, and the pressing a function key performs the corresponding function. The abbreviations and graphical symbols in the window correspond to the [F1] to [F4] keys, respectively starting from the left.



## [Page 38: Specifications](#)

7. 10. Specifications Item Specifications Model number RKP004Z Applicable model VF-AS1/PS1/MB1 inverter unit Communication Baud rate: 19200 bps (f800=1) setting Communication type: 2-wire RS485 Parity: even (f801=1) Approx. weight (kg) 0.14 Use environments Indoors, an altitude of 3000m or less, where the product will...

## [Page 39: Before Making A Service Call](#)

8. Before making a service call 11. Before making a service call If a problem occurs, follow the instructions in this table to track down and eliminate the cause of the problem. Problems Possible causes Remedies Nothing is displayed on the •...

[Page 40](#) • Check the cable and the connector, message is displayed when during communication. then copy again. the copy function is used. "TOSHIBA" screen is • This phenomenon appears only • Does not appear after doing copy to the momentarily displayed when once when using copy function LCD one time(ref).

## [Page 41: Warranty](#)

1. If the product breaks down within one year after delivery, although it is installed and handled properly, and if the breakdown is undoubtedly attributable to a defect in designing or manufacturing by Toshiba, the product shall be repaired free of charge. 2. This warranty applies only to the delivered unit.