

YASKAWA AC Drive Option Bluetooth® LCD Keypad Installation Manual

Model JVOP-KPLCC04Axx, JVOP-KPLCC04Mxx

To properly use the product, read this manual thoroughly and retain for easy reference, inspection, and maintenance. Ensure the end user receives this manual.



Get the DriveWizard Mobile App



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Table of Contents

1.	Preface and Safety.	6
	Applicable Documentation	6
	Glossary	7
	Registered Trademarks.	7
	Supplemental Safety Information	8
	Use Precautions	9
2.	Overview.	9
	For Yaskawa Customers in the North or South America Regions	10
3.	Receiving	11
4.	Component Names and Functions	12
	Indicator LEDs and Drive Status.	15
5.	Installation and Primary Operation	17
	Section Safety	17
	Installing the Keypad on the Drive	17
	Enabling Bluetooth Communications for the Keypad	18
	Connect to a Drive by Bluetooth Using the DriveWizard Mobile App	21
	Prepare the Information Necessary for Connection	21
	Install DriveWizard Mobile.	22

Connect to the Drive	23
Connect to a Drive by Bluetooth Using the DriveWizard PC Tool	30
Prepare the Information Necessary for Connection	30
Install DriveWizard	31
Connect to the Drive	31
Disconnect Bluetooth Communications	36
Bluetooth Mode	38
Bluetooth Mode and Normal Operation Mode	38
Key Functions in Bluetooth Mode	39
Bluetooth Mode Screen Displays	40
Methods to Install a Remote Keypad	41
External Dimensions of Keypad	43
Procedure A	44
Procedure B	53
Procedure C	64
Replace the Keypad Battery	70
6. Related Parameters	74
7. Fault Diagnostics and Solutions	75
8. Standards Compliance	76
European Standards (CE)	77
European Standards (RE Directives)	77
EU Declaration of Conformity	78
United Kingdom Conformity Assessed Marking (UKCA)	86
FCC and IC Certifications	87
Regulatory Compliance Mark (RCM)	88
CMIIT Certification	88
Japan Radio Law	89
9. Disposal Instructions	89
WEEE Directive	90

10. Specification	90
11. Warranty	92
Warranty Period	92
Post-Warranty Repair Period	92
Cyber Security Disclaimers	92
About Application of This Product	93
Revision History	94

1 Preface and Safety

◆ Applicable Documentation

Document	Description
YASKAWA AC Drive Option Bluetooth LCD Keypad Installation Manual	Read this manual before you install the option. The manual contains basic information about how to install, wire, and connect the DriveWizard Mobile App or DriveWizard through Bluetooth communication. The manual is packaged together with the product.
YASKAWA AC Drive Manuals	For information about drive settings, refer to the manuals for the drive on which you will use this option. The manuals provide information about basic installation, wiring, operation procedures, functions, troubleshooting, and maintenance. The manuals also include important information about parameter settings and tuning the drive. You can download drive manuals from the Yaskawa product and technical information website shown on the back cover of this manual.

Note:

This manual shows typical examples. Different drive series can have different functions. Refer to the drive manuals for more information.

◆ Glossary

Phrase	Definition
Drive	• YASKAWA AC Drive GA500 • YASKAWA AC Drive GA700 • YASKAWA AC Drive GA800 • YASKAWA AC Drive CH700 • YASKAWA AC Drive CR700 • YASKAWA AC Drive LA700 • YASKAWA AC Drive FP605
Keypad Bluetooth Keypad	YASKAWA AC Drive Option Bluetooth LCD Keypad
Standard Keypad	LCD keypad without Bluetooth capability
Bluetooth Mode	A mode where the Bluetooth Keypad broadcasts Bluetooth. A mobile device with the DriveWizard Mobile App or a PC with DriveWizard software communicates with the drive through Bluetooth.
Normal Operation Mode	A mode where the Bluetooth Keypad does not broadcast Bluetooth. You can use the Bluetooth Keypad as a Standard Keypad.
DriveWizard Mobile	A mobile app for Android and iOS that lets you use a smartphone or tablet to manage and monitor drive parameters.
DriveWizard	An engineering tool that uses a PC to manage and monitor drive parameters.

◆ Registered Trademarks

- Bluetooth® word mark and logo is a registered trademark of Bluetooth SIG, Inc. USA. We obtains all the license for these marks.
- Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.
- App Store is a service mark of Apple Inc.
- The iOS trademark is used under license of Cisco in the U.S.

- Google Play and the Google Play logo are trademarks of Google LLC.
 - QR Code is a registered trademark of DENSO WAVE INCORPORATED.
 - Other company names and product names in this manual are trademarks or registered trademarks of the respective companies.
-

◆ Supplemental Safety Information

Read and understand this manual before you install, operate, or do maintenance on the option. Use this option as specified by this manual and local codes.

The symbol marks in this section identify safety messages in this manual. If you do not obey these safety messages, the hazards can cause serious injury, death, or damage to the products and related equipment and systems.

DANGER

This signal word identifies a hazard that will cause serious injury or death if you do not prevent it.

WARNING

This signal word identifies a hazard that can cause death or serious injuries if you do not prevent it.

CAUTION

This signal word identifies a hazard that can cause minor or moderate injuries if you do not prevent it.

NOTICE

This signal word identifies a property damage message that is not related to personal injury.

■ General Safety

General Precautions

- The figures in this manual can possibly include options and drives without covers or safety shields to show detail. Install missing covers or safety shields before you operate the drive. Use the option only as specified by the instructions in this manual.
- The diagrams in this manual are only examples and are not always related to all the products included in this manual.
- Yaskawa can change the products and specifications in this manual or the content and presentation of the manual without notice to improve the product and/or the manual.
- If you damage or lose manuals, contact a Yaskawa representative or the nearest Yaskawa sales office shown on the rear cover of the manual, and tell them the document number on the front cover to order new copies.

DANGER

Do not ignore the safety messages in this manual. If you ignore the safety messages in this manual, it will cause serious injury or death. The manufacturer is not responsible for injuries or damage to equipment.

◆ Use Precautions

This product includes a wireless device. Some countries restrict the use of wireless devices as specified by their radio laws. Confirm the radio laws of the country in which you will use the device.

2 Overview

Communicate with the drive using Bluetooth with a Bluetooth Keypad and the DriveWizard Mobile App or the DriveWizard PC tool. Bluetooth keypad has all of the functions of the standard keypad plus Bluetooth technology.

Key features of this keypad include the ability to:

- Read and modify drive parameter settings
- Back up, restore, and verify drive parameters
- Monitor drive operation status

◆ Compatible Products

Product Series	Drive Software Version ^{*1}
GA500	All
GA700	1016 or later
GA800	All
CH700	All
CR700	All
LA700	All
FP605	All

*1 Refer to "PRG" on the drive nameplate for the software version number.

◆ For Yaskawa Customers in the North or South America Regions

If your drive series is not shown in the "Compatible Products" section, refer to the web page below to confirm that your drive is compatible with this option. The web page shows a list of drives and compatible options, and also directs you to the correct installation manual and installation procedure for your drive.

Refer to the URL or scan QR code:

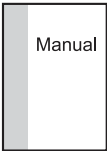


<https://www.yaskawa.com/products/option-lookup>

3 Receiving

1. Make sure that there is no damage to the keypad and no parts are missing.
If there is damage to the products, contact the shipping company immediately. The Yaskawa warranty does not include damage from shipping.
2. Make sure that the model number on the option nameplate and the model number on the purchase order are the same.
If you have problems with the option, contact the distributor where you purchased the option or the Yaskawa sales office immediately.

◆ Option Package Contents

Option Contents		Quantity
Bluetooth LCD Keypad		1
Installation Manual (This document)		1

4 Component Names and Functions

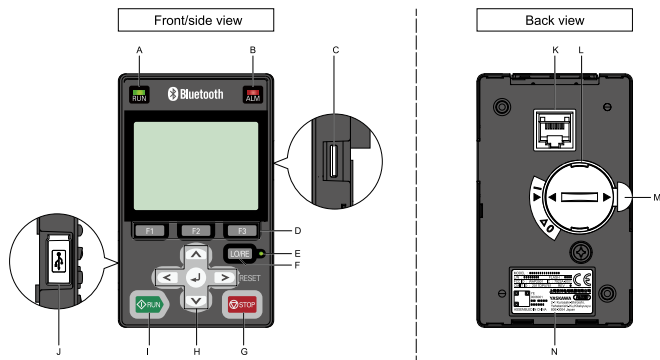


Figure 4.1 Keypad

Table 4.1 Component Names and Functions

-	Name	Function
A	RUN LED 	Illuminates while the drive is operating the motor.
B	ALM LED 	Illuminates when the drive detects a fault.
C	microSD Card Slot	The slot for a microSD card.
D	Function Keys F1, F2, F3	The menu shown on the keypad sets the functions for function keys. The name of each function is directly above each key in the LCD display window.

-	Name	Function
	  	
E	LO/RE LED 	Illuminates when you select the keypad for Run command and frequency reference control (LOCAL).
F	LO/RE Selection Key 	Switches drive control for the Run command and frequency reference between the keypad (LOCAL) and an external source (REMOTE). Note: - The drive will not switch between LOCAL and REMOTE when it is receiving a Run command from an external source. - When you stop the drive in Drive Mode, the LOCAL/ REMOTE Selection Key stays enabled. If the application must not switch from REMOTE to LOCAL because it will have a negative effect on system performance, set <i>o2-01 = 0</i> [<i>LO/RE Key Function Selection = Disabled</i>] to disable .
G	STOP Key 	Stops drive operation. Note: Push  to stop the motor. This will also apply when a Run command (REMOTE Mode) is active at an external Run command source. To disable  priority, set <i>o2-02 = 0</i> [<i>STOP Key Function Selection = Disabled</i>].
H	Left Arrow Key 	Moves the cursor to the left.
	Up Arrow Key/Down Arrow Key  / 	- Scrolls up or down to show the next item or the previous item. - Selects parameter numbers, and increments or decrements setting values.

4 Component Names and Functions

-	Name	Function
	Right Arrow Key (RESET) 	- Moves the cursor to the right. - Continues to the next screen. - Clears drive faults.
	ENTER Key 	- Enters parameter values and settings. - Selects menu items to move between keypad displays. - Selects each mode, parameter, and set value.
I	RUN Key 	Starts the drive in LOCAL Mode. Starts the motor tuning procedure in Auto-Tuning Mode. Note: Before you use the keypad to operate the motor, push  on the keypad to set the drive to LOCAL Mode.
J	USB Terminal	Factory use for maintenance.
K	RJ-45 Connector	Connects to the drive using an RJ-45 8-pin straight through UTP CAT5e extension cable or keypad connector.
L	Clock Battery Cover	Cover for the clock battery.
M	Insulation Sheet	Remove the insulation sheet before you use the clock function. Note: An insulating sheet is attached to keypads that have a built-in battery.
N	Nameplate	Shows the model number of the keypad and other information Note: “REV” identifies the hardware and software version of the keypad. “FCC ID” is the ID issued by the U.S. Federal Communications Commission. “IC” is the Canadian authentication code.

⚠ WARNING

Sudden Movement Hazard. If you change the control source when $b1-07 = 1$ [LOCAL/REMOTE Run Selection = Accept Existing RUN Command], the drive can start suddenly. Before you change the control source, remove all personnel from the area around the drive, motor, and load. Sudden starts can cause serious injury or death.

◆ **Indicator LEDs and Drive Status**

LED	Display	Drive Status
RUN LED 	Illuminated	The drive is operating the motor.
	Flashing	- The drive is decelerating to stop. - The drive received a Run command with a frequency reference of 0 Hz, but the drive is not set for zero speed control. - The drive received a DC Injection Braking command.
	Flashing Quickly	- The drive received a Run command from the MFDI terminals and is switching to REMOTE Mode while the drive is in LOCAL Mode. - The drive received a Run command from an external source and the drive is not in Drive Ready (READY) condition. - The drive received a Fast Stop command. - The safety function shut off the drive output. - You pushed  on the keypad while the drive is operating in REMOTE Mode. - The drive is energized with an active Run command and $b1-17 = 0$ [Run Command at Power Up = Disregard Existing RUN Command]. - When $b1-03 = 3$ [Stopping Method Selection = Coast to Stop with Timer], the Run command is disabled then enabled during the Run wait time. - The drive received a DC Injection Braking command. - The voltage of the main circuit power supply decreased, and the 24 V power supply is supplying power only the the drive.
	OFF	The motor is stopped.

LED	Display	Drive Status
ALM LED 	Illuminated	The drive detects a fault.
	Flashing	The drive detected one of the following: • An alarm • An oPE parameter setting error • A fault or error during Auto-Tuning Note: The digital characters displayed on the keypad will also flash.
	OFF	There are no drive faults or alarms.
LO/RE LED 	Illuminated	The keypad controls the Run command (LOCAL Mode).
	OFF	The control circuit terminal or serial transmission device controls the Run command (REMOTE Mode).

■ LED Flashing Statuses

Refer to [Figure 4.2](#) for information about the differences between flashing and “flashing quickly”.

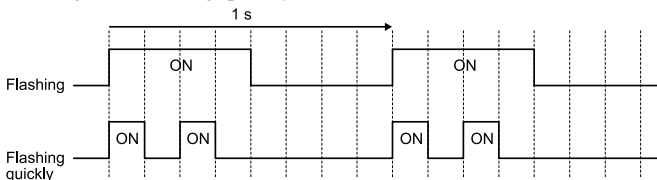


Figure 4.2 LED Flashing Statuses

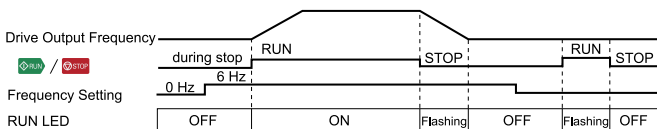


Figure 4.3 Relation between RUN indicator and Drive Operation

5 Installation and Primary Operation

◆ Section Safety

NOTICE *Damage to Equipment. Correctly connect all pins and connectors. If the pins and connectors are incorrect, it can cause damage to equipment and incorrect operation.*

NOTICE *Damage to Equipment. Do not bend the communication cables more than the bend radius specifications. If you bend the cables too much, it can break the wires and loosen connections.*

Note:

Use Yaskawa connection cables or recommended cables only. Incorrect cables can cause the drive or option to function incorrectly.

◆ Installing the Keypad on the Drive

Refer to [Methods to Install a Remote Keypad on page 41](#) when you install the keypad on an enclosure panel.

1. Remove the standard keypad that shipped with the drive.

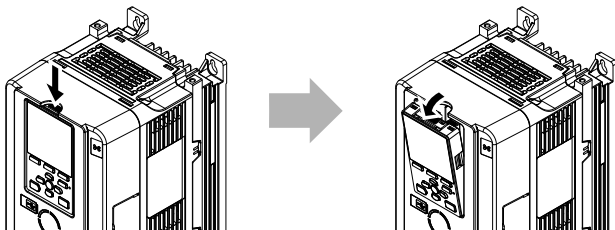


Figure 5.1 Remove the Keypad

- Put the bottom of the Bluetooth keypad into position first, then carefully push on the top of the keypad until the hook clicks into place.

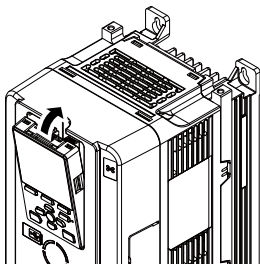


Figure 5.2 Attach the Keypad

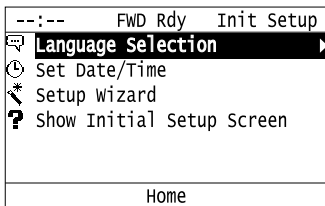
◆ Enabling Bluetooth Communications for the Keypad

When $A1-12 = 0000$ [Bluetooth ID = 0000], Bluetooth communication for the keypad is disabled. To enable Bluetooth, use this procedure to set the Bluetooth ID $\neq 0000$.

Note:

Make sure that you record the value of the Bluetooth ID you set, as it is necessary to connect to the drive.

- Push **F2** two times on the initial Setup screen.



2. Push  to select [Parameters] then push .

--:--	FWD	Menu
	Monitors	
	Parameters	▶
	User Custom Parameters	
	Parameter Backup/Restore	
	Modified Param / Fault Log	
	Auto-Tuning	
Home		

3. Select [A Initialization Parameters] then push .

--:--	FWD	Parameters
A	Initialization Parameters	▶
b	Application	
C	Tuning	
d	References	
E	Motor Parameters	
F	Options	
Back Home		

4. Select [A1 Initialization] then push .

--:--	FWD	Parameters
A1	Initialization	▶
A2	User Parameters	
Back Home		

5. Select [Bluetooth ID] then push .

--:--	FWD	Parameters
Application Preset		
A1-06	1	(0)
DriveWorkSEZ Function Selection		
A1-07	0	(0)
Bluetooth ID		
A1-12	0	
Back	Home	

6. Set A1-12 $\neq$ 0000 [Bluetooth ID $\neq$ 0000].

--:--	FWD	Parameters
Bluetooth ID		
A1-12	0000	
Default :		
Range : 0~9999		
Back	Default	Min/Max



--:--	FWD	Parameters
Bluetooth ID		
A1-12	1235	
Default :		
Range : 0~9999		
Back	Default	Min/Max

7. Push  to keep the new A1-12 setting.

--:--	FWD	Parameters
Application Preset		
A1-06	1	(0)
DriveWorkSEZ Function Selection		
A1-07	0	(0)
Bluetooth ID		
A1-12	1235	
Back	Home	

8. Push and hold **F2** (Home) to show the HOME screen in Bluetooth Mode.

--:--	FWD	Rdy		Home
Freq Reference (AI)				60.00
U1-01	Hz			
Output Frequency				0.00
U1-02	Hz			
Output Current				0.00
U1-03	A			
Device Name				

Note:

- The Bluetooth icon shows that Bluetooth is enabled.
- You can temporarily disable Bluetooth and change to Normal Operation Mode when you push a key other than **F2**.
- When the keypad is idle for longer than 60 seconds, the keypad will automatically go back to Bluetooth Mode, even after you change to Normal Operation Mode.

◆ Connect to a Drive by Bluetooth Using the DriveWizard Mobile App

■ Prepare the Information Necessary for Connection

Collect this information before you connect the keypad to DriveWizard Mobile with Bluetooth communications:

1. Yaskawa Drive Cloud account Member ID and Password.

Note:

- Access the URL on the back cover of this manual to register for an account.
- For Japan: Member ID and password to the Yaskawa product and technical information website

2. Setting value of *A1-12* [Bluetooth ID]

Note:

When *A1-12* = 0000, Bluetooth communication is disabled. Set the Bluetooth ID $\neq$ 0000 to enable Bluetooth. Refer to [Enabling Bluetooth Communications for the Keypad on page 18](#) for more information.

3. Drive series and serial number of the drive to which you will connect

Note:

- To retrieve the Device Name transmitted by Bluetooth, push **F2** (Device Name).

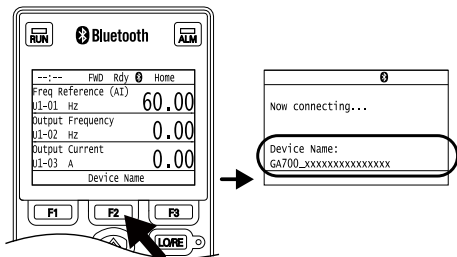


Figure 5.3 Device Name

- Use the Device Name when you connect DriveWizard Mobile to the drive to identify your drive from the other devices that are transmitting Bluetooth.

■ Install DriveWizard Mobile

Download DriveWizard Mobile to your smartphone or tablet through the Apple App Store or Google Play Store.

- For Android devices: Google Play Store
- For iOS devices: App Store

Table 5.1 QR Codes

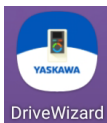
Google Play Store	App Store
	

Refer to the Apple App Store or Google Play Store for smartphones or tablets and drives compatible with the DriveWizard Mobile App.

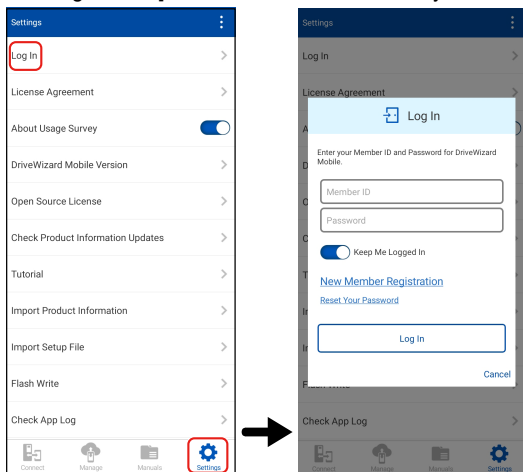
■ Connect to the Drive

Use this procedure to launch DriveWizard Mobile and connect to the drive.

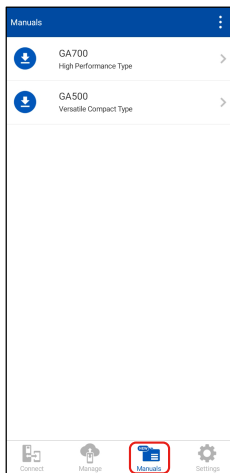
1. Start DriveWizard Mobile on your smartphone or tablet.



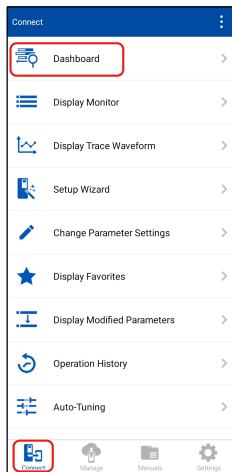
2. Tap [Log In] in [Settings] tab to Log into DriveWizard Mobile. Use your Drive Cloud ID and password.
If you do not have an account, tap [New Member Registration] to create an account before you continue.



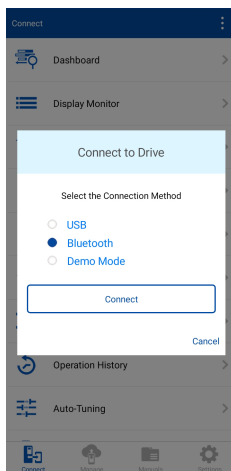
3. Tap [Manuals] tab on the Home Screen, select the drive series to connect, and download the product information.



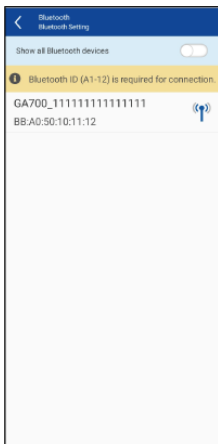
4. Tap [Dashboard] in [Connect] tab.



5. Select [Bluetooth] then tap [Connect].



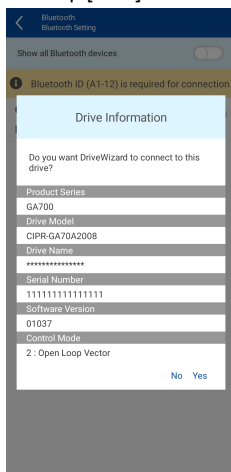
6. Tap the correct drive in the list of Bluetooth devices to make the connection.



Note:

- Push **F2** (Device Name) on the drive keypad to check the Device Name of the drive you will connect.
- The device name of the drive is shown as "Drive Series_Serial Number". If necessary, use the [Drive Information] menu in DriveWizard Mobile to change the "Serial Number" to a different value.
- If you did not download the product information of the connected drive, download the product information as specified by the dialog.

7. Make sure that the screen shows the correct drive information and tap [YES].



Note:

Make sure that the keypad screen display on the connected drive is changed to "Connected" and the LED status ring flashes for a few seconds. Some drive series may not have the LED status ring feature.

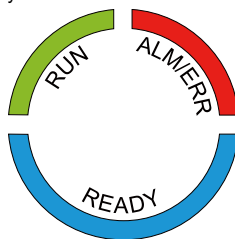
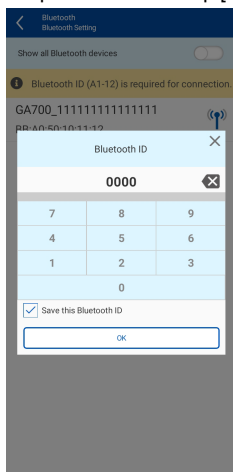


Figure 5.4 LED Status Ring

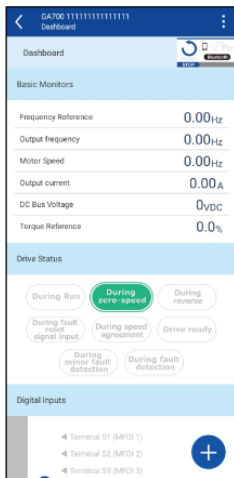
8. Enter the setting value of A1-12 [Bluetooth ID] on the Bluetooth ID Input screen and tap [OK].



Note:

Check the [Save Bluetooth ID] checkbox to skip this step in the future.

When you connect the drive and the DriveWizard Mobile App, the device will show basic monitors and operation status.



The DriveWizard Mobile connection procedure to the drive is complete.

Note:

Refer to the DriveWizard Mobile Help for more information about how to use DriveWizard Mobile to operate the drive.

◆ Connect to a Drive by Bluetooth Using the DriveWizard PC Tool

■ Prepare the Information Necessary for Connection

Collect this information before you connect the keypad to DriveWizard with Bluetooth communications:

1. Setting value of *A1-12 [Bluetooth ID]*

Note:

When *A1-12* = 0000, Bluetooth communication is disabled. Set the Bluetooth ID $\neq$ 0000 to enable Bluetooth. Refer to [Enabling Bluetooth Communications for the Keypad on page 18](#) for more information.

2. Drive series and serial number of the drive to which you will connect

Note:

- To retrieve the Device Name transmitted by Bluetooth, push **F2** (Device Name).

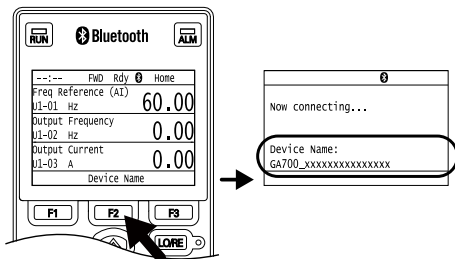


Figure 5.5 Device Name

- Use the Device Name when you connect DriveWizard to the drive to identify your drive from the other devices that are transmitting Bluetooth.

■ Install DriveWizard

Access the URL on the back cover of this manual to download the DriveWizard installer and install it on your PC.

Note:

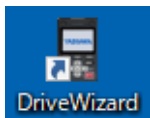
- For Japan: Access the Yaskawa product and technical information website.
- Use DriveWizard version 10.1.7.0 or later for Bluetooth communications.

Refer to the above download site for PC and drives compatible with the DriveWizard PC tool.

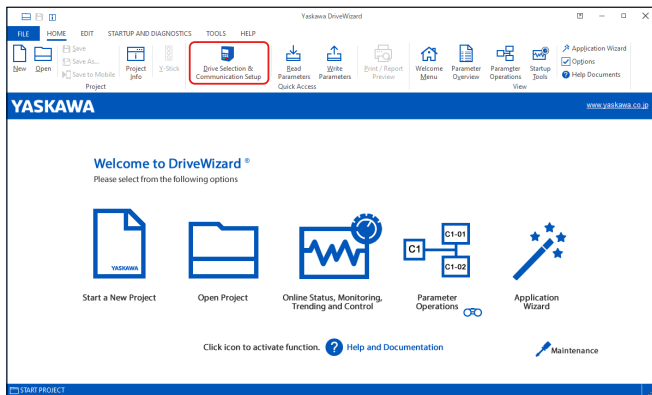
■ Connect to the Drive

Use this procedure to launch DriveWizard and connect to the drive.

1. Start DriveWizard on your PC.



2. Click [Drive Selection & Communication Setup] icon.



3. Select [Bluetooth Keypad] from [Drive Port / Connection].

Drive Selection / Communication Setup

YASKAWA DriveWizard®

Drive Selection **Communication Setup**

Drive Information


 Drive Series: GA700
 Software Version: 01037
 Model: CIPR-GA70*2004**** (0xf62)
 Control Method: Open Loop Vector
 Region: Japanese spec

Drive Port / Connection

☐ Serial / USB (direct to drive) Info: [Com1 : 1F - RS232C/DP] [Modify](#)
☐ Ethernet Info: 192.168.1.20 : 502 Network Adapter: AUTO Host IP: [Modify](#)
☒ **Bluetooth Keypad** Info: 0 %

To work Offline select drive information and click 'Select Drive / Work Offline' button or click on the 'Connect to Drive / Go Online' button to automatically scan the drive connected and go online. Press Cancel to abort.

[? Help](#)
[Connect to Drive / Go Online](#)
[Select Drive / Work Offline](#)
[Cancel](#)

[Test](#)
[Communication Setup](#)
[Scan Drive](#)

4. Select [Communication Setup] tab and click [Scan for Bluetooth Devices] button.

Drive Selection / Communication Setup

YASKAWA DriveWizard®

Drive Selection **Communication Setup**

Device Name	Device Address	Device Type

Set drive parameter A1-12 > 0 to enable Bluetooth Communication

Bluetooth ID (A1-12): 0

ID has to match A1-12 to connect.

Transmit Delay	Response Delay
0 ms.	500 ms.

[Back to Drive Selection](#)
[Scan for Bluetooth Devices](#)
[Connect](#)
[Disconnect](#)

[? Help](#)
[Connect to Drive / Go Online](#)
[Select Drive / Work Offline](#)
[Cancel](#)

5. Select the correct drive in the list of Bluetooth devices to make the connection.

Drive Selection / Communication Setup

YASKAWA DriveWizard®

Drive Selection Communication Setup

Device Name	Device Address	Device Type
GA700_1111111111111111	BBA050101112	Bluetooth Low Energy

Set drive parameter A1-12 > 0 to enable Bluetooth Communication

Bluetooth ID (A1-12): 0

ID has to match A1-12 to connect.

Transmit Delay: 0 ms. Response Delay: 500 ms.

Back to Drive Selection Scan for Bluetooth Devices Connect Disconnect

Help Connect to Drive / Go Online Select Drive / Work Offline Cancel

Note:

- Push **F2** (Device Name) to check the Device Name of the drive you will connect.
- The device name of the drive is shown as "Drive Series_Serial Number". If necessary, use [Drive Name Setting] in the [Drive Maintenance] menu in DriveWizard to change the "Serial Number" to a different value.

6. Enter the setting value of A1-12 [Bluetooth ID] and click [Connect].

Drive Selection / Communication Setup

YASKAWA DriveWizard®

Drive Selection Communication Setup

Device Name	Device Address	Device Type
GA700_1111111111111111	BBA050101112	Bluetooth Low Energy

Set drive parameter A1-12 > 0 to enable Bluetooth Communication

Bluetooth ID (A1-12): 1235

ID has to match A1-12 to connect.

Transmit Delay: 0 ms. Response Delay: 500 ms.

Back to Drive Selection Scan for Bluetooth Devices **Connect** Disconnect

Help Connect to Drive / Go Online Select Drive / Work Offline Cancel

Note:

Make sure that the keypad screen display on the connected drive is changed to "Connected" and the LED status ring flashes for a few seconds. Some drive series may not have the LED status ring feature.

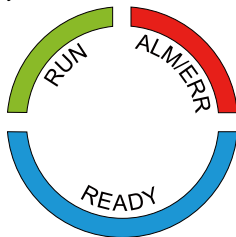
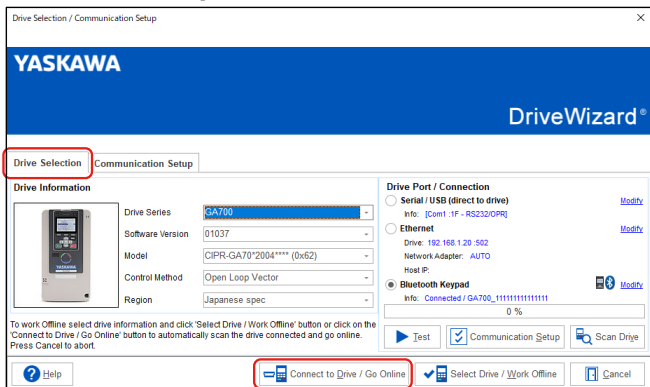


Figure 5.6 LED Status Ring

7. Select the [Drive Selection] tab and click [Select Drive / Go Online] button to connect to the drive.



The DriveWizard connection procedure to the drive is complete.

Note:

Refer to the DriveWizard Help for more information about how to use DriveWizard to operate the drive.

◆ Disconnect Bluetooth Communications

The operation to disconnect Bluetooth communications is different for different operating devices. Table 5.2 lists the disconnection methods for each operating device.

Table 5.2 Operating Devices and Disconnection Method

Operating Device	Disconnection Method
DriveWizard Mobile App	• Suspend or exit the app. • Move to the tabs other than [Connect] tab. • Tap a banner of the drive connection information at the top of the [Connect] tab.
DriveWizard PC Tool	• Exit the tool. • Click [Disconnect] button in [Communication Setup] tab.
Keypad	• Push  to stop communications between DriveWizard Mobile or DriveWizard and the drive and switch the keypad to Normal Operation Mode. • Push a key other than  to show the confirmation screen before you disconnect from DriveWizard Mobile or DriveWizard. Select [Yes, disconnect.] to disconnect and switch to Normal Operation Mode. Disconnect Bluetooth mode? No, continue. Yes, disconnect. Note: • Use parameters to set drive operation after you disconnect the smartphone or tablet and drive. • If the keypad is idle for longer than 60 seconds after you switch to Normal Operation Mode, the keypad will automatically go back to Bluetooth Mode. • Set $A1-12 = 0000$ [Bluetooth ID = 0000] to keep the keypad in Normal Operation Mode in these conditions: –The keypad was idle, for example during Auto-Tuning –The keypad must not switch from Normal Operation Mode to Bluetooth Mode

◆ Bluetooth Mode

■ Bluetooth Mode and Normal Operation Mode

The keypad operates in Bluetooth Mode and Normal Operation Mode.

- Bluetooth Mode

This mode uses the DriveWizard Mobile App or DriveWizard PC tool with Bluetooth communications to interface with the drive.

Note:

Set $A1-12 \neq 0000$ [Bluetooth ID $\neq 0000$] to enable Bluetooth when you energize the drive.

- Normal Operation Mode

- This mode uses the Bluetooth keypad to operate the drive.
- The keys operate the Bluetooth keypad are the same as the keys on the standard keypad included with the drive. Refer to [Component Names and Functions on page 12](#) for more information.
- Push a key other than **F2** when in Bluetooth Mode to disconnect Bluetooth communications and switch to Normal Operation Mode. Refer to [Disconnect Bluetooth Communications on page 36](#) for more information.

Note:

Set $A1-12 = 0000$ to disable the Bluetooth connection. When $A1-12 \neq 0000$, push a key other than **F2** when you are in Bluetooth Mode to temporarily disconnect Bluetooth communications and change to Normal Operation Mode. When the keypad is idle for longer than 60 seconds, the keypad will automatically go back to Bluetooth Mode, even after you change to Normal Operation Mode.

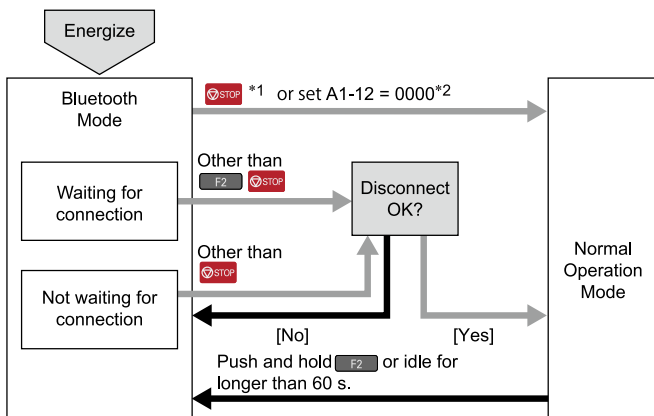


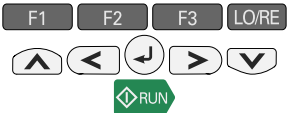
Figure 5.7 Changing between Bluetooth Mode and Normal Operation Mode

- *1 Push  to stop drive operation.
 *2 Set $A1-12 = 0000$ to disable the Bluetooth connection.

■ Key Functions in Bluetooth Mode

The  is the only key that operates the same in Bluetooth Mode and Normal Operation Mode. The other keys on the keypad will disconnect from Bluetooth Mode.

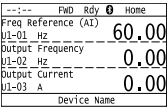
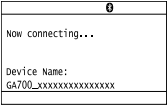
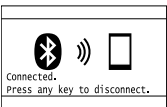
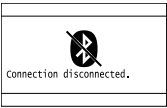
Table 5.3 Key Functions

Key	Function
	Stops drive operation and switches the keypad to Normal Operation Mode.
	Shows the confirmation screen to disconnect Bluetooth Mode. Select [YES] to switch to Normal Operation Mode.

■ Bluetooth Mode Screen Displays

Table 5.4 shows the screen displays and connection statuses for the keypad.

Table 5.4 Bluetooth Mode Screen Displays and Connection Statuses

Screen Display	Connection Status
 HOME Screen  Connection Standby Screen	- The keypad is in standby and waiting for a Bluetooth connection. - When you push F2 (Device Name), the keypad shows the connection standby screen. When you push F2 again, the keypad goes back to the home screen.
	- The keypad is communicating with the DriveWizard Mobile App or DriveWizard PC tool. - The keypad is waiting for the DriveWizard Mobile App or DriveWizard PC tool, to enter the Bluetooth ID.
	There is a problem with the connection to the DriveWizard Mobile App or DriveWizard PC tool. Note: After 2 seconds, the drive goes back to the connection standby screen.

◆ Methods to Install a Remote Keypad

Installation Method	Description	Required Tools
External/Face-Mount	Installs the option on the outside of the panel. An optional installation bracket is not necessary for this installation.	Phillips screwdriver #2 (M3)
Internal/Flush-Mount	Encloses the keypad in the panel. The front of the keypad is flush with the outside of the panel.	• Phillips screwdriver #2 (M3, M4) • Installation support set A (for mounting with screws, model: 900-192-933-001)
		• Phillips screwdriver #2 (M3) • Wrench (M4) • Installation support set B (for mounting with nut clamp, model: 900-192-933-002)

Note:

Installation support sets are sold separately. When there are weld studs on the interior of the control panel, use installation support set B.

■ Keypad Installation Method

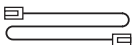
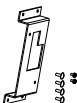
The installation procedure is different for different drives.

Drive	Installation Procedure	Ref.
GA700, GA800, CR700, CH700, LA700	A	44
GA500	B	53
FP605	C	64

■ Optional Items

The optional extension cable and installation support set are necessary for Internal/Flush-Mount installation.

Contact Yaskawa or your nearest sales representative to order optional items.

Item	Part Number	Notes
Extension cable (1 m (3.3 ft.)) 	WV001 ^{*1}	Connects the keypad for remote operation. - RJ-45 8-pin straight through - UTP CAT5e cable (1 m (3.3 ft.)/3 m (9.8 ft.)) NOTICE <i>Damage to Equipment. Do not use this cable to connect the drive to a PC. Failure to obey will cause damage to the PC.</i>
Extension cable (3 m (9.8 ft.)) 	WV003 ^{*1}	
Installation support set A (screw clamp) 	900-192-933-001	Encloses the keypad in the panel. - M3 screws: 6 mm (0.24 in.) depth Phillips recessed pan head machine screws (2) - M4 screws: 10 mm (0.39 in.) depth Phillips truss head screws (4) (for panel thickness of 1 to 1.6 mm (0.04 to 0.06 in.))
Installation support set B (nut clamp) 	900-192-933-002	Encloses the keypad in the panel. When there are weld studs on the interior of the control panel, use installation support set B. M3 screws: 6 mm (0.24 in.) depth Phillips recessed pan head machine screws (2)

^{*1} Part numbers for the Americas region are UWR0051 and UWR0052. Contact Yaskawa or your nearest sales representative for more information.

■ External Dimensions of Keypad

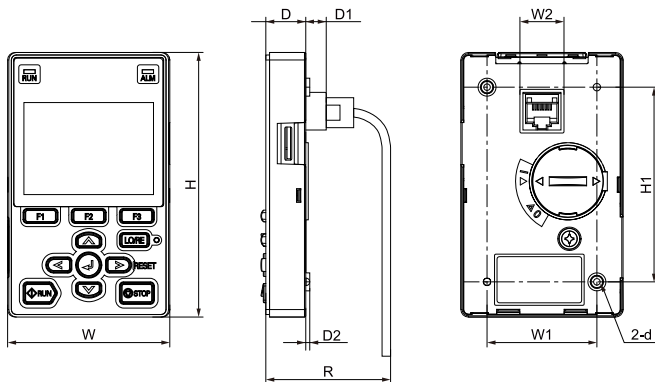


Figure 5.8 Exterior and Mounting Dimensions

Table 5.5 Dimensions mm (in)

W	H	D	D1	D2	R *1	W1	W2	H1	d
65 (2.56)	106 (4.17)	16 (0.63)	8.2 (0.32)	1.6 (0.06)	≥ 53.8 (2.12)	44 (1.73)	15 (0.59)	78 (3.07)	M3

*1 Minimum bending radius

NOTICE *Damage to Equipment. Do not bend the communication cables more than the bend radius specifications. If you bend the cables too much, it can break the wires and loosen connections.*

■ Procedure A

External/Face-Mount Installation

1. Use the dimensions in [Figure 5.9](#) and [Table 5.6](#) to cut an opening and tap two holes in the enclosure panel.

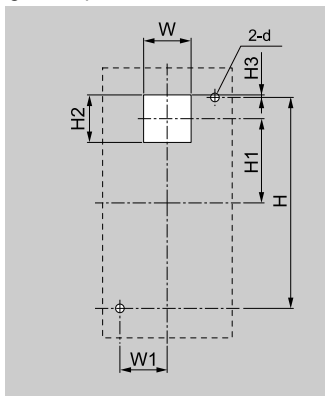
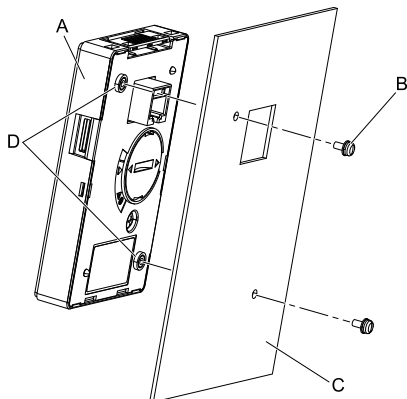


Figure 5.9 External/Face Mount Enclosure Panel Cut-Out Dimensions

Table 5.6 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	H2	H3	d
22 (0.87)	78 (3.07)	22 (0.87)	29 (1.14)	22 (0.87)	1 (0.04)	3.6 (0.14)

2. Use M3 screws (6 mm (0.24 in) depth phillips pan head) to attach the keypad from the inside as shown in [Figure 5.10](#).



A - Keypad

B - M3 screws

C - Enclosure panel

D - Screw mounting holes

Figure 5.10 External/Face-Mount Installation

3. Push the tab on the top of the drive keypad and carefully pull forward to remove the keypad from the drive.

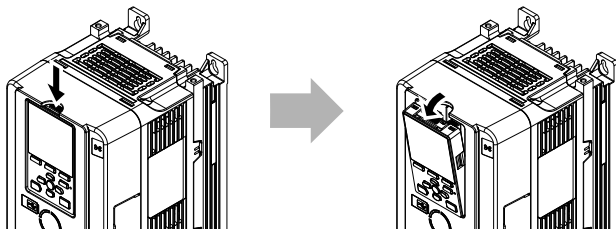


Figure 5.11 Removing the Included Drive Keypad

4. Remove the keypad connector and put the keypad connector in the holder on the front cover.

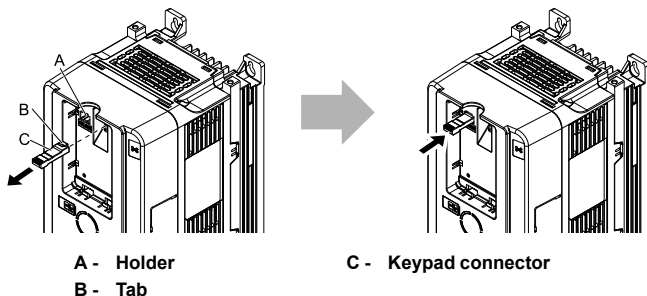
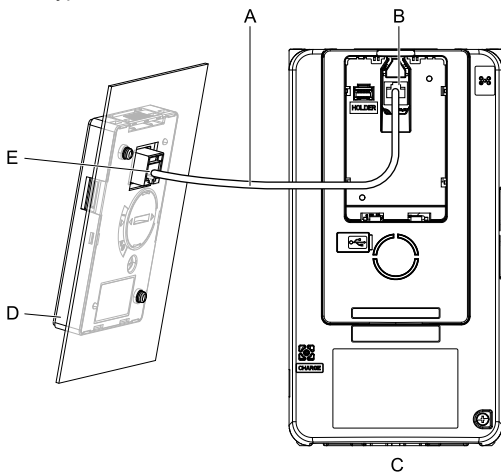


Figure 5.12 Moving the Keypad Connector to the Holder

5. Use the extension cable to connect the drive to the keypad.



- | | |
|------------------------------|---------------------|
| A - Extension cable | D - Keypad |
| B - Communications connector | E - Cable connector |
| C - Drive | |

Figure 5.13 Connecting the Drive and Keypad with the Extension Cable

Internal/Flush-Mount Installation

Installation support sets A or B (sold separately) are necessary for Internal/Flush-Mount installation. The installation procedure is the same for installation support sets A and B. Contact Yaskawa or your nearest sales representative to order optional items.

1. Use the dimensions in [Figure 5.14](#) and [Table 5.7](#) to cut an opening and tap two holes in the enclosure panel.
The panel cut-out dimensions are the same for installation support sets A and B.

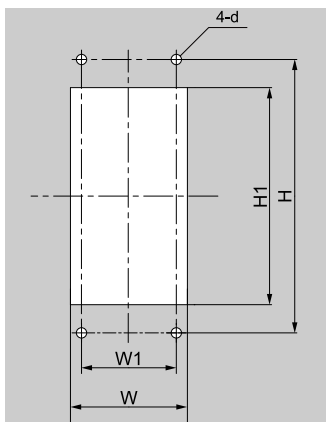
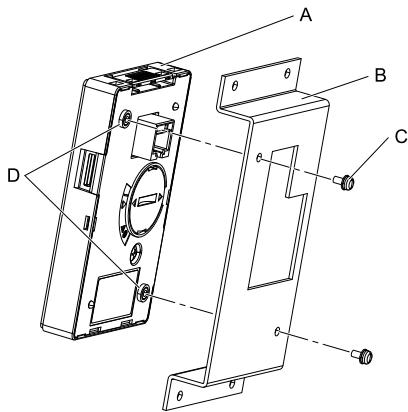


Figure 5.14 Internal/Flush-Mount Enclosure Panel Cut-Out Dimensions

Table 5.7 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	d
64 + 0.5 (2.52 + 0.02)	130 (5.12)	45 (1.77)	105 + 0.5 (4.13 + 0.02)	4.8 (0.19)

2. Use the screws included in the support set as shown in [Figure 5.15](#) to attach the keypad to the installation support.



A - Keypad

B - Installation support
set A

C - M3 screws

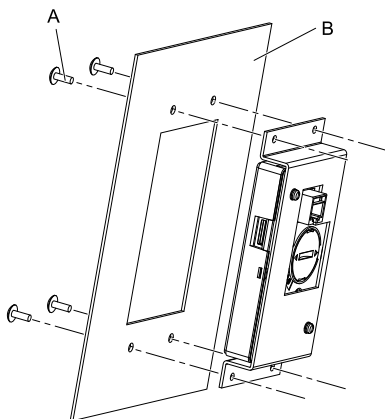
D - Screw mounting
holes

Figure 5.15 Mounting the Keypad to Installation Support Set A

3. Use the M4 screws included in the support set as shown in [Figure 5.16](#) to attach the installation support and keypad to the enclosure panel.

Note:

Use a gasket between the control panel and the keypad in areas where dust or other airborne materials could cause damage to the drive.



A - M4 screws

B - Enclosure panel

Figure 5.16 Internal/Flush-Mount Installation

4. Push the tab on the top of the drive keypad and carefully pull forward to remove the keypad from the drive.

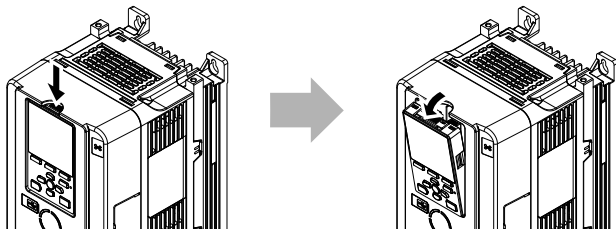


Figure 5.17 Removing the Included Drive Keypad

5. Remove the keypad connector and put the keypad connector in the holder on the front cover.

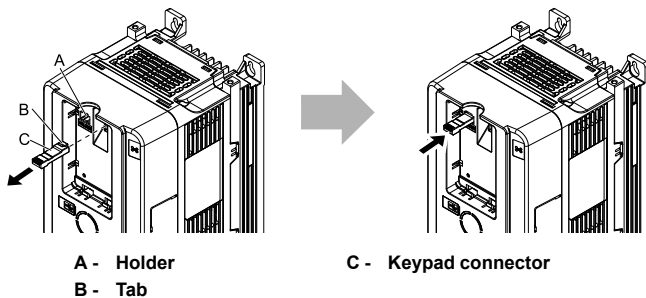
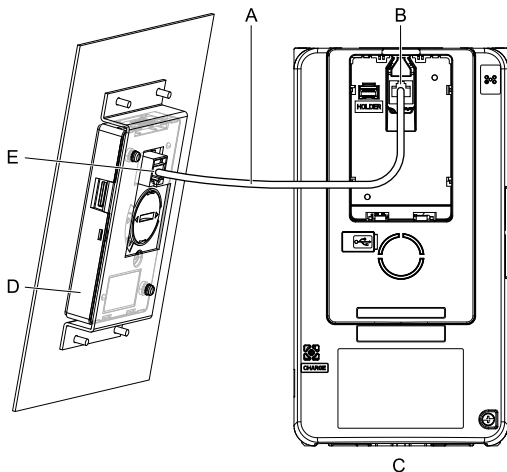


Figure 5.18 Moving the Keypad Connector to the Holder

6. Use the extension cable to connect the drive to the keypad.



A - Extension cable

D - Keypad

B - Communications
connector

E - Cable connector

C - Drive

Figure 5.19 Connecting the Drive and Keypad with the Extension Cable

■ Procedure B

External/Face-Mount Installation

1. Use the dimensions in [Figure 5.20](#) and [Table 5.8](#) to cut an opening and tap two holes in the enclosure panel.

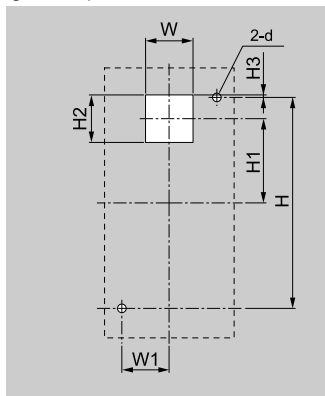
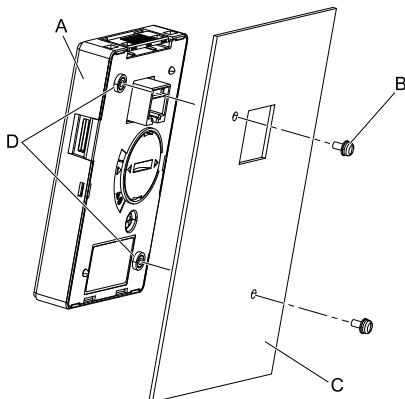


Figure 5.20 External/Face Mount Enclosure Panel Cut-Out Dimensions

Table 5.8 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	H2	H3	d
22 (0.87)	78 (3.07)	22 (0.87)	29 (1.14)	22 (0.87)	1 (0.04)	3.6 (0.14)

2. Use M3 screws (6 mm (0.24 in) depth phillips pan head) to attach the keypad from the inside as shown in [Figure 5.21](#).



A - Keypad

B - M3 screws

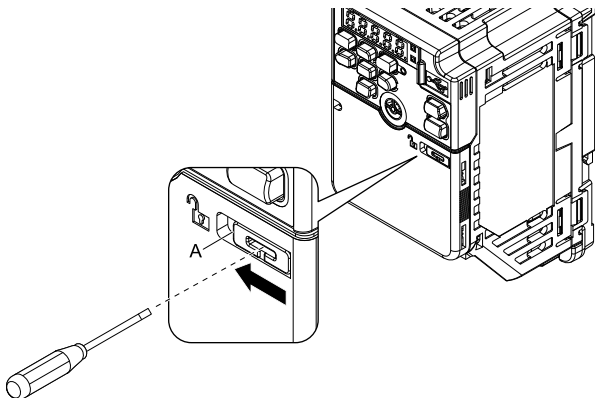
C - Enclosure panel

**D - Screw mounting
holes**

Figure 5.21 External/Face-Mount Installation

3. Use a slotted screwdriver to unlock the front cover of the drive.

Use a slotted screwdriver with a tip width of 2.5 mm (0.1 in) or less and a thickness of 0.4 mm (0.02 in) or less.



A - Front cover lock

Figure 5.22 Unlocking

4. Slide the front cover down and remove it from the drive.

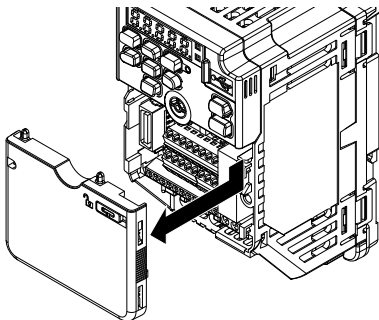


Figure 5.23 Remove the Front Cover

5. Push on the tab on the right side of the keypad, then pull the keypad forward to remove it from the drive.

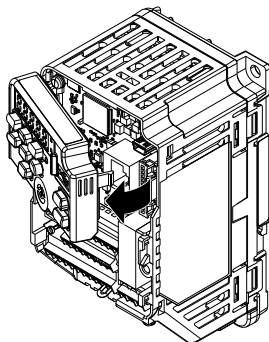
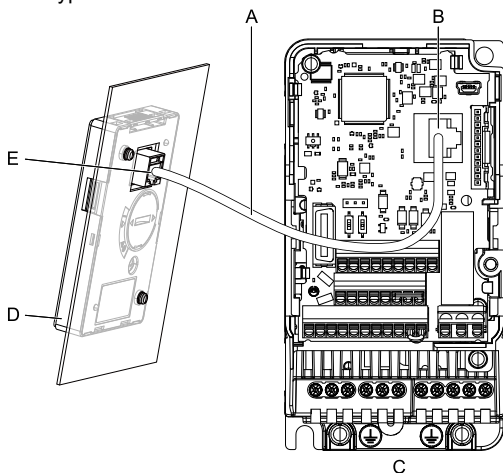


Figure 5.24 Removing the Included Drive Keypad

6. Use the extension cable to connect the drive to the keypad.



- A - Extension cable**
B - Communications connector
C - Drive

- D - Keypad**
E - Cable connector

Figure 5.25 Connecting the Drive and Keypad with the Extension Cable

Internal/Flush-Mount Installation

Installation support sets A or B (sold separately) are necessary for Internal/Flush-Mount installation. The installation procedure is the same for installation support sets A and B. Contact Yaskawa or your nearest sales representative to order optional items.

1. Use the dimensions in [Figure 5.26](#) and [Table 5.9](#) to cut an opening in the control panel for the keypad.
 The panel cut-out dimensions are the same for installation support sets A and B.

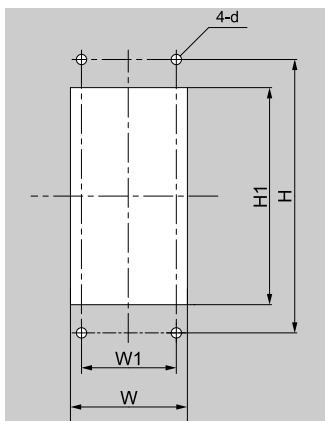
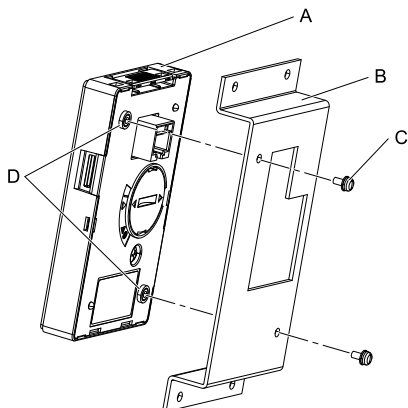


Figure 5.26 Internal/Flush-Mount Enclosure Panel Cut-Out Dimensions

Table 5.9 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	d
64 + 0.5 (2.52 + 0.02)	130 (5.12)	45 (1.77)	105 + 0.5 (4.13 + 0.02)	4.8 (0.19)

2. Use the screws included in the support set as shown in [Figure 5.27](#) to attach the keypad to the installation support.



A - Keypad

**B - Installation support
set A**

C - M3 screws

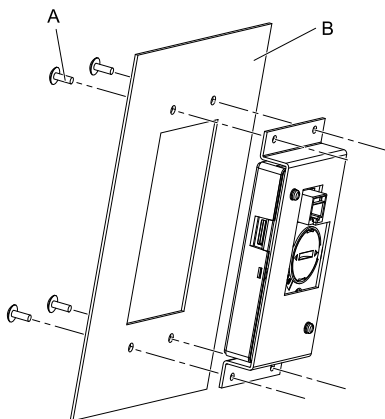
**D - Screw mounting
holes**

Figure 5.27 Mounting the Keypad to Installation Support Set A

3. Use the M4 screws included in the support set as shown in [Figure 5.28](#) to attach the installation support and keypad to the enclosure panel.

Note:

Use a gasket between the control panel and the keypad in areas where dust or other airborne materials could cause damage to the drive.



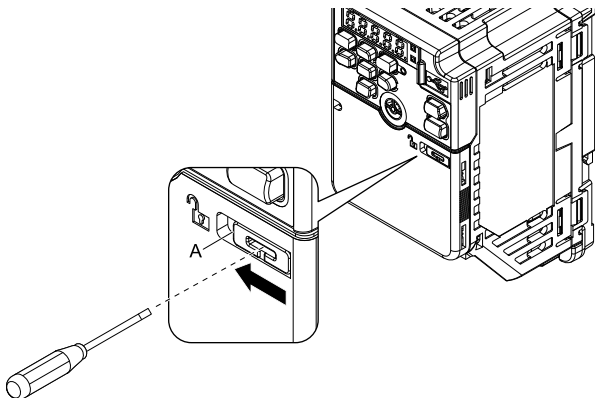
A - M4 screws

B - Enclosure panel

Figure 5.28 Internal/Flush-Mount Installation

4. Use a slotted screwdriver to unlock the front cover of the drive.

Use a slotted screwdriver with a tip width of 2.5 mm (0.1 in) or less and a thickness of 0.4 mm (0.02 in) or less.



A - Front cover lock

Figure 5.29 Unlocking

5. Slide the front cover down and remove it from the drive.

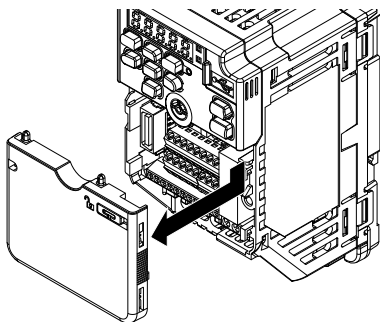


Figure 5.30 Remove the Front Cover

6. Push on the tab on the right side of the keypad, then pull the keypad forward to remove it from the drive.

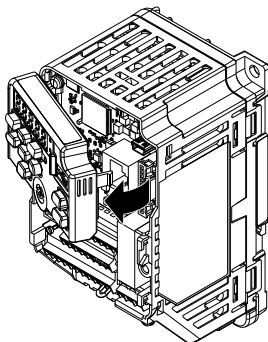
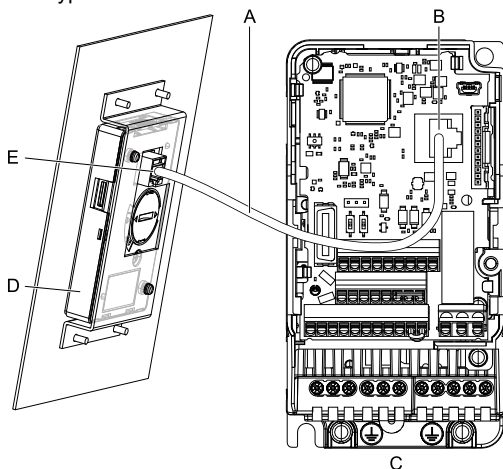


Figure 5.31 Removing the Included Drive Keypad

7. Use the extension cable to connect the drive to the keypad.



A - Extension cable
B - Communications
connector
C - Drive

D - Keypad
E - Cable connector

Figure 5.32 Connecting the Drive and Keypad with the Extension Cable

■ Procedure C

External/Face-Mount Installation

1. Use the dimensions in [Figure 5.33](#) and [Table 5.10](#) to cut an opening in the control panel for the keypad.

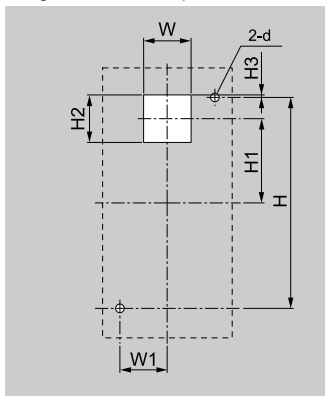


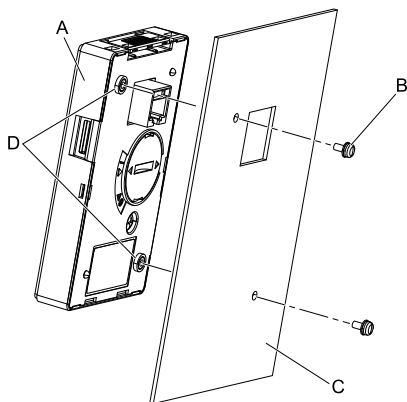
Figure 5.33 External/Face Mount Enclosure Panel Cut-Out Dimensions

Table 5.10 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	H2	H3	d
22 (0.87)	78 (3.07)	22 (0.87)	29 (1.14)	22 (0.87)	1 (0.04)	3.6 (0.14)

2. Use M3 screws (6 mm (0.24 in) depth phillips pan head) to attach the keypad from the inside as shown in [Figure 5.34](#).

Tighten the screws to a tightening torque of 0.49 N·m to 0.73 N·m (4.34 lbf·in to 6.46 lbf·in).



A - Keypad

B - M3 screws

C - Enclosure panel

D - Screw mounting holes

Figure 5.34 External/Face-Mount Installation

3. Push the tab on the top of the drive keypad and carefully pull forward to remove the keypad from the drive.

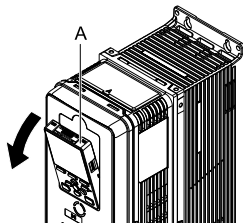
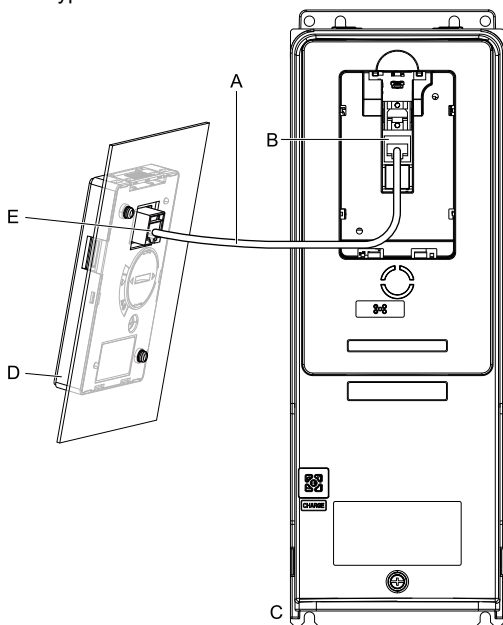


Figure 5.35 Removing the Included Drive Keypad

4. Use the extension cable to connect the drive to the keypad.



A - Extension cable

B - Communications
connector

C - Drive

D - Keypad

E - Cable connector

Figure 5.36 Connecting the Drive and Keypad with the Extension Cable

Internal/Flush-Mount Installation

Installation support sets A or B (sold separately) are necessary for Internal/Flush-Mount installation. The installation procedure is the

same for installation support sets A and B. Contact Yaskawa or your nearest sales representative to order optional items.

1. Use the dimensions in [Figure 5.37](#) and [Table 5.11](#) to cut an opening and tap two holes in the enclosure panel. The panel cut-out dimensions are the same for installation support sets A and B.

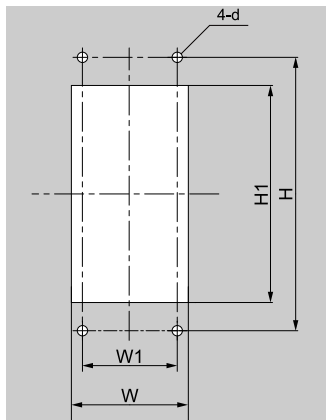


Figure 5.37 Internal/Flush-Mount Enclosure Panel Cut-Out Dimensions

Table 5.11 Enclosure Panel Cut-Out Dimensions mm (in.)

W	H	W1	H1	d
64 + 0.5 (2.52 + 0.02)	130 (5.12)	45 (1.77)	105 + 0.5 (4.13 + 0.02)	4.8 (0.19)

2. Use the screws included in the support set as shown in [Figure 5.38](#) to attach the keypad to the installation support.

Tighten the screws to a tightening torque of 0.49 N·m to 0.73 N·m (4.34 lbf·in to 6.46 lbf·in).

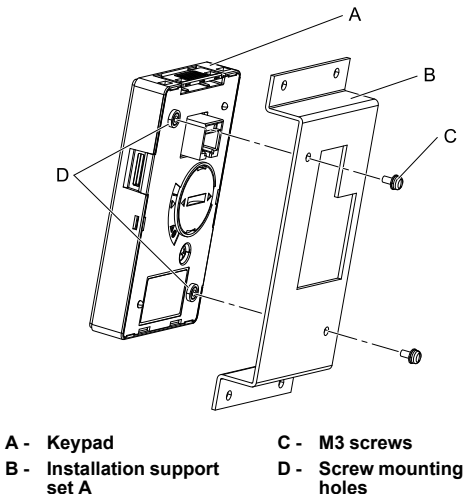


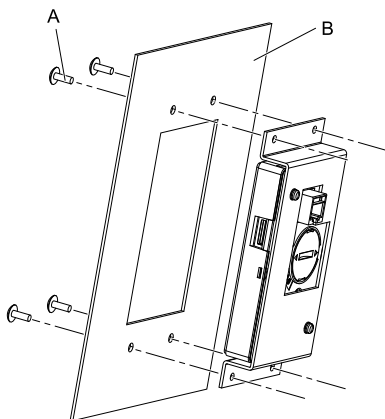
Figure 5.38 Mounting the Keypad to Installation Support Set A

3. Use the M4 screws included in the support set as shown in [Figure 5.39](#) to attach the installation support and keypad to the enclosure panel.

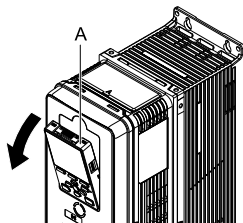
Tighten the screws to a tightening torque of 0.98 N·m to 1.33 N·m (8.67 lbf·in to 11.77 lbf·in).

Note:

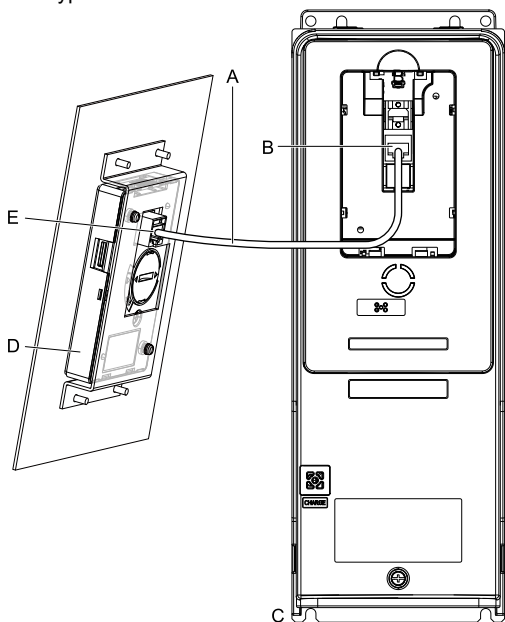
Use a gasket between the control panel and the keypad in areas where dust or other airborne materials could cause damage to the drive.

**A - M4 screws****B - Enclosure panel****Figure 5.39 Internal/Flush-Mount Installation**

4. Push the tab on the top of the drive keypad and carefully pull forward to remove the keypad from the drive.

**Figure 5.40 Removing the Included Drive Keypad**

5. Use the extension cable to connect the drive to the keypad.



A - Extension cable
B - Communications connector
C - Drive

D - Keypad
E - Cable connector

Figure 5.41 Connecting the Drive and Keypad with the Extension Cable

◆ Replace the Keypad Battery

When the keypad battery is expired, the date and time go back to the default settings. Use this procedure to replace the battery.

⚠ WARNING

Fire Hazard. Handle keypad batteries properly. Do not charge the battery or disassemble the keypad. If the battery explodes, it can cause a fire.

To replace the battery, use a Hitachi Maxell “CR2016 Lithium Manganese Dioxide Lithium Battery” or an equivalent battery with these properties:

- Nominal voltage: 3 V
- Operating temperature range: -20°C to +85°C (-4°F to +185°F)

⚠ WARNING

Fire Hazard. Do not disassemble batteries. Do not expose batteries to heat or fire. If the battery explodes, it can cause a fire.

NOTICE

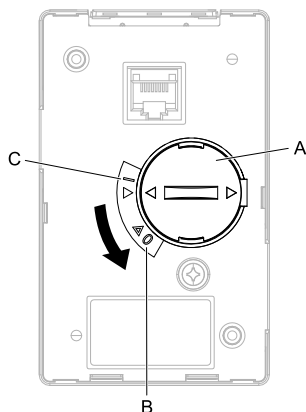
Damage to Equipment. The keypad battery stays in use after you de-energize the drive. When you will keep the drive deenergized for long periods of time, remove the battery from the keypad. When the expected life of the battery is complete, replace the battery immediately. A dead battery in the keypad can leak and cause damage to the keypad and drive.

The performance life estimate of a new battery is different for different keypad versions.

Refer to “REV” on the keypad nameplate for the keypad version.

- Keypad with REV: H and earlier or REV: J and later
 - 5 years (20 °C (68 °F))
 - 3.5 years (-10 °C to +50 °C (14 °F to 122 °F))
 - Keypad with REV: I
 - 2.5 years (20 °C (68 °F))
 - 1.8 years (-10 °C to +50 °C (14 °F to 122 °F))
1. De-energize the drive and remove the keypad.

2. Use a slotted screwdriver to turn the battery cover counterclockwise and remove the cover.



A - Battery cover

C - Closed

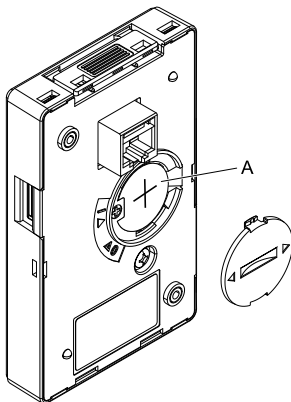
B - Opened

Figure 5.42 Remove the Battery Cover

3. Remove the used battery from the keypad.
4. Insert the new battery.

Note:

- The battery cover side is the positive pole. Make sure that the polarity is correct when you put the battery in the keypad.
- Discard the used battery as specified by local regulations.



A - Battery

Figure 5.43 Insert the New Battery

5. Put the battery cover on the keypad and use a slotted screwdriver to turn the battery cover clockwise to close it.
6. Install the keypad on the drive.

6 Related Parameters

These parameters set the drive to operate with Bluetooth Keypad. Set parameters as necessary. Refer to the drive manual for information about how to set parameters.

No. (Hex.)	Name	Description	Default (Range)
A1-12 (1564)	Bluetooth ID	Sets the drive password necessary for the use of Bluetooth with the DriveWizard Mobile App or DriveWizard PC tool. Refer to the drive manual for the default setting. Set <i>A1-12</i> = 0000 to disable the Bluetooth connection.	- (0000 - 9999)
02-27 (1565)	bCE Detection Selection	Sets drive operation if the Bluetooth device is disconnected when you operate the drive in Bluetooth Mode. Refer to the drive manual for the default setting. 0 : Ramp to Stop 1 : Coast to Stop 2 : Fast Stop (Use <i>C1-09</i>) 3 : Alarm Only 4 : No Alarm Display	- (0 - 4)

7 Fault Diagnostics and Solutions

Code	Name	Causes	Possible Solutions
bCE	Bluetooth Communication Fault	The smartphone or tablet with DriveWizard Mobile or DriveWizard installed is too far from the keypad.	Use the smartphone or tablet 10 m (32.8 ft) or nearer to the keypad. Note: <i>bCE</i> can occur when the smartphone or tablet is 10 m (32.8 ft) or nearer to the keypad depending on the specifications of the smartphone or tablet.
		Radio waves from a different device are causing interference with communications between the smartphone or tablet and keypad.	Make sure that no device around the keypad uses the same radio bandwidth (2400 MHz to 2480 MHz), and prevent radio interference.

◆ How to Troubleshoot DriveWizard Mobile App or DriveWizard PC Tool Connections

Causes	Possible Solutions
You do not know the Bluetooth ID.	Use the keypad to check the value set in A1-12 [Bluetooth ID].
The drive software is older and is not compatible with the keypad.	Check the drive software version. Refer to the Compatible Products table in this manual and also check the drive and keypad nameplates for software versions. Note: The keypad shows [Error: Out of Bluetooth Support].

Causes	Possible Solutions
The device with DriveWizard Mobile or DriveWizard installed is physically too far from the keypad.	Use the device 10 m (32.8 ft) or nearer to the keypad. Note: The device and the keypad could possibly not connect in distances nearer than 10 m (32.8 ft) because of the device specifications.
The keypad is not in Bluetooth Mode.	• Wait for 60 seconds minimum and do not push a key on the keypad until the keypad switches from Normal Operation Mode to Bluetooth Mode • Set <i>A1-12 ≠ 0000 [Stall Prevention during Decel ≠ Disabled]</i> to enable stall prevention. • Remove and connect the keypad again.
The Bluetooth radio/protocol version is not compatible with the keypad.	Make sure that the device supports Bluetooth 4.0 or 4.1.
Radio waves from a different device are causing interference with communications between the device and keypad.	Make sure that no device around the keypad uses the same radio bandwidth (2400 MHz to 2480 MHz), and prevent radio interference.
There is damage to the keypad circuit board.	Replace the keypad. Note: The keypad will show [Bluetooth Initializing...], and will not continue to the [Now connecting...] screen. The keypad will show an alarm.

8 Standards Compliance

This section gives the guidelines to use to comply with standards about machines and devices that use this product in different countries.

◆ European Standards (CE)**Figure 8.1 CE Mark**

The CE Mark identifies that the product meets environmental and safety standards in the European Union. Products manufactured, sold, or imported in the European Union must display the CE Mark.

European Union standards include standards for machinery (Machinery Directive), standards for electrical appliances (Low Voltage Directive), and standards for electrical noise (EMC Directive).

For commercial transactions (manufacturing, import, sales) in the European Union, the CE Mark is a mandatory requirement.

This option displays the CE Mark in accordance with the following European Directive.

- Low Voltage Directive: 2014/35/EU
- EMC Directive: 2014/30/EU
- Radio Equipment Directive: 2014/53/EU
- RoHS Directive: 2011/65/EU

The drive incorporating this option, and the device or machine incorporating the drive are covered by the CE Mark.

The customer must display the CE Mark on the final device containing this product. Customers must verify that the final device complies with EU standards.

◆ European Standards (RE Directives)

This product complies with the EU Radio Equipment Directive (RED).

Importers, distributors, and manufacturers may be responsible for damages under this RED wireless directive.

■ **EU Declaration of Conformity**

Yaskawa declares that this product complies with the following directives and standards at our sole responsibility.

EU Declaration of Conformity

Original-English

YASKAWA

Ref.No. EZZ024397

YASKAWA ELECTRIC CORPORATION2-13-1 Nishimiyaichi Yukuhashi City
Fukuoka Pref., 824-8511 Japan**declares under sole responsibility conformity of the following products**

KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMDD****Y = 1, 2 ... 9
M = A...C and 1, 2 ... 9
D = 0...9
A = 0...9**Directive of the European Parliament and Council**

Low Voltage Directive (LVD)	: 2014/35/EU
Electromagnetic Compatibility Directive (EMC)	: 2014/30/EU
Restriction of the use of certain hazardous substances (RoHS)	: 2011/65/EU
Radio Equipment Directive (RED)	: 2014/53/EU

Applied harmonized StandardsEN 62368-1:2014
EN 61800-3:2004/A1:2012
EN 301 489-1 V1.9.2
EN IEC 63000:2018
EN 300 328 V2.2.2
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4**Person located in the EU that is authorized to compile technical file****YASKAWA Europe GmbH**
Hauptstrasse 185, 65760 Eschborn,
Germany**Place / Date****YASKAWA ELECTRIC CORPORATION**2-13-1 Nishimiyaichi Yukuhashi City
Fukuoka Pref., 824-8511 Japan**5th, July, 2022****Drives Division
General Manager**

Tatsuya Yamada

EU Declaration of Conformity

Translation – German | French | Italian | Spanish | Portuguese

YASKAWA

Ref.No. EZZ024397

EG-Konformitätserklärung | Déclaration de conformité CE | Dichiarazione di conformità CE
Declaración de Conformidad de la CE | Declaração de Conformidade CE**YASKAWA ELECTRIC CORPORATION**2-13-1 Nishimiyaichi Yukuhashi City
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 déclare, sous sa seule responsabilité, que les produits
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 bajo su exclusiva responsabilidad la conformidad para los siguientes productos
 declara, sob a sua exclusiva responsabilidade, a conformidade dos seguintes produtos

KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMOD****

Y = 1, 2 ... 9
 M = A...C and 1, 2 ... 9
 D = 0...9
 * = 0...9

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Low Voltage Directive (LVD)

: 2014/35/EU

Niederspannungsrichtlinie / Directive Basse Tension /
 Direttiva sulla bassa tensione / Directiva de Baja Tensión / Diretiva "Baixa Tensão"

Electromagnetic Compatibility Directive (EMC)

: 2014/30/EU

EMV-Richtlinie / Directive CEM / Directiva EMC / Directiva sobre Compatibilidad Electromagnética / Diretiva CEM

Restriction of the use of certain Hazardous Substances (RoHS)

: 2011/65/EU

Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten.
 Relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques.
 Sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche.
 Sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos.
 Relativa à restrição do uso de determinadas substâncias perigosas em equipamentos eletrônicos e eletrônicos.

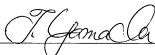
Radio Equipment Directive (RED)

: 2014/53/EU

Richtlinie über Funkausrüstung / Directive sur l'équipement radio
 Direttiva sulle apparecchiature radio / Directiva de equipos de radio / Diretiva Equipamento de Rádio

Place / Date

Ort, Datum / Lieu et date / Luogo, data / Lugar, fecha / Local, data

YASKAWA ELECTRIC CORPORATION2-13-1 Nishimiyaichi Yukuhashi City
Fukuoka Pref., 824-8511 JapanDrives Division
General Manager5th, July, 2022


Tatsuya Yamada

EU Declaration of Conformity

Translation – German | French | Italian | Spanish | Portuguese

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Applied harmonized Standards

Angewandte harmonisierte Norm
 Normes harmonisées appliquées
 Norma armonizzata applicata
 Norma armonizada aplicada
 Normas armonizadas aplicadas

EN 62368-1:2014

EN 61800-3:2004/A1:2012

EN 301 489-1 V1.9.2

EN IEC 63000:2018

EN 300 328 V2.2.2

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

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YASKAWA Europe GmbH
 Hauptstrasse 185, 65760 Eschborn,
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YASKAWA ELECTRIC CORPORATION

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5th. July. 2022


Drives Division
 General Manager

Tatsuya Yamada

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Translation - Danish | Swedish | Finnish | Latvian | Estonian

YASKAWA

Ref.No. EZZ024397

EF-översensstemmelseserklæring | EG-försäkrän om överensstämmelse
 EY-vaatimustenmukaisuusvakuutus | EK atbilstības deklarācija | EÜ vastavusdeklaratsioon

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 Fukuoka Pref., 824-8511 Japan

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erklærer som eneste ansvarlig overensstemmelsen for følgende produkter
 försäkrar på eget ansvar att följande produkter uppfyller kraven på överensstämmelse
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 uz savu atbildību paziņo par šālak minēto izstrādājumu atbilstību
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KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMOD****

Y = 1, 2 ... 9
 M = A...C and 1, 2 ... 9
 D = 0...9
 * = 0...9

Directive of the European Parliament and Council

Europa-Parlamentets og Rådets direktiv / EU-direktiv / Euroopan parlamentin ja neuvoston direktiivi
 Europas Parlamenta un Padomes Direktīva / Euroopa Parlamendi ja nõukogu direktiv

Low Voltage Directive (LVD)

: 2014/35/EU

Lävsändingsdirektivet / Lågsäpänningsdirektiv / Pienjännitedirektiivi / Zemsprieguma direktīva / Madalpingedirektiiv

Electromagnetic Compatibility Directive (EMC)

: 2014/30/EU

EMC-direktiv / EMC-direktiv / EMC-direktiivi / EMS direktīva / Elektromagnetilise ühilduvuse direktiv

Restriction of the use of certain hazardous substances (RoHS)

: 2011/65/EU

Om begränsning af användelsen af visse farlige stoffer i elektrisk og elektronisk udstyr.
 Om begränsning av användning av vissa farliga ämnen i elektrisk och elektronisk utrustning.
 Tietojen vaarallisten aineiden käytön rajoittamisesta sähkö- ja elektroniikkalaitteissa.
 Par dāzu bīstamu vielu izmantošanas ierobežošanu elektriskās un elektroniskās iekārtās.
 Del tam tikru pavojuņu medžiagu naudojimo elektros ir elektroninėje įrangoje apribojimo.

Radio Equipment Directive (RED)

: 2014/53/EU

Direktiv om radioudstyr / Radioutrustnings direktiv / Radiolatedirektiivi / Radioiekārtu direktīva / Radiosēdmote direktiv

Applied harmonized Standards

Anvendte harmoniserede standarder
 Tillämpade harmoniserade standarder
 Sovelletut yhdenmukaistetut standardit
 Piemēroti saskaņotie standarti
 Kehitvad harmoniseeritud standardid

EN 62368-1:2014

EN 61800-3:2004/A1:2012
 EN 301 489-1 V1.9.2

EN IEC 63000:2018

EN 300 328 V2.2.2
 EN 301 489-1 V2.2.3
 EN 301 489-17 V3.2.4

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 Person inom EU som är behörig att sammanställa teknisk fil
 EU:ssa sijaitseva henkilö, jolla on oikeus laatia tekninen tiedosto
 Persona, kas atrodas ES un ir pilnvarots sastādīt tehnisko dokumentāciju
 ELis asuv isik, kellel on õigus koostada tehnilist toimetust

YASKAWA Europe GmbH
 Hauptstrasse 185, 65780 Eschborn,
 Germany

Place / Date

By, dato / Ort och datum / Paikka, pvm / Viets, datums / Koht, kuupäev

YASKAWA ELECTRIC CORPORATION

2-13-1 Nishimiyaichi Yukuhashi City
 Fukuoka Pref., 824-8511 Japan

5th. July. 2022


Drives Division
 General Manager

Tatsuya Yamada

EU Declaration of Conformity

Translation – Dutch / Irish / Greek / Bulgarian / Romanian

YASKAWA

Ref.No. EZZ024397

EG-conformiteitsverklaring / Dearbhú Comhréireachta AE / Δήλωση Συμμόρφωσης ΕΚ
EO-Декларация за съответствие / Declarație de conformitate CE

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Fukuoka Pref., 824-8511 Japan

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a dhearbhalonn faoi threagracht aonair comhréireacht na dtáirgí seo a leanas
επιβεβαιώνει, με αποκλειστική του ευθύνη, τη συμμόρφωση των ακόλουθων προϊόντων
декларира на собствена отговорност съответствието на следния продукт
declară pe răspunderea sa exclusivă conformitatea următoarelor produse

KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMDD****

Y = 1, 2 ... 9
M = A...C and 1, 2 ... 9
D = 0...9
* = 0...9

Directive of the European Parliament and Council

Richtlijn van het Europees Parlement en de Europese Raad
Treatoir ó Pharlaimint na hEorpa agus ón gComhairle / Οδηγία του Ευρωπαϊκού Κοινοβουλίου και του Συμβουλίου
Директива на Европейския парламент и Съвета / Directiva Parlamentului European și a Consiliului

Low Voltage Directive (LVD)

: 2014/35/EU

Laagspanningsrichtlijn / Treoir maidir le hIsealvoltais / Οδηγία για τη χαμηλή τάση / Директивата за ниско напрежение /
Directive voltaj scăzut

Electromagnetic Compatibility Directive (EMC)

: 2014/30/EU

EMC-richtlijn / Treoir maidir le Comhoiriúnacht Leictreamaighnéadach / Οδηγία ηλεκτρομαγνητικής συμβατότητας (EMC) /
Директива за електромагнитна съвместимост / Directiva CEM

Restriction of the use of certain hazardous substances (RoHS)

: 2011/65/EU

Betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur.
Srianta ar úsáid substaintí díobhálacha áirithe i dtrealamh leictreach agus leictreonach.
Για τον περιορισμό της χρήσης ορισμένων επικίνδυνων ουσιών σε ηλεκτρικό και ηλεκτρονικό εξοπλισμό.
Ограничението за употребата на определени опасни вещества в електрическото и електронното оборудване.
Privind restricțiile de utilizare a anumitor substanțe periculoase în echipamentele electrice și electronice.

Radio Equipment Directive (RED)

: 2014/53/EU

Richtlijn radioapparatuur / Treoir maidir le Trealamh Raidió / Οδηγία ο ραδιοεξοπλισμού /
Директива за радиосъоръженията / Directiva echipamentelor radio

Applied harmonized Standards

Toegepaste geharmoniseerde normen
Caighdeán chomhchuibhithe atá curtha i bhfeidhm
Caighdeán chomhchuibhithe atá curtha i bhfeidhm
Εφαρμοσμένα ευνομοποιημένα πρότυπα
Приложени хармонизирани стандарти
Standarde armonizate aplicate

EN 62368-1:2014
EN 61800-3:2004/A1:2012
EN 301 489-1 V1 9.2
EN IEC 63000:2018
EN 300 328 V2.2.2
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Person located in the EU that is authorized to compile technical file
Person gevestigd in de EU die bevoegd is om technisch dossier samen te stellen
Duine atá lonnaithe san AE atá údaraithe chun comhad teicniúil a thionsú
Πρόσωπο που βρίσκεται στην ΕΕ και είναι εξουσιοδοτημένο για τη σύνταξη τεχνικού φακέλου
Лице, намиращо се в ЕС, което е упълномощено да съставя техническо досие
O persoană situată în UE care este autorizată să întocmească un dosar tehnic

YASKAWA Europe GmbH
Hauptstrasse 185, 65760 Eschborn,
Germany

Place / Date

Plaats, Datum / Áit, Dáta / Τόπος, ημερομηνία / Място, Дата / Locul, data

YASKAWA ELECTRIC CORPORATION

2-13-1 Nishimiyaichi Yukuhashi City
Fukuoka Pref., 824-8511 Japan

5th. July, 2022



Drives Division
General Manager

Tatsuya Yamada

EU Declaration of Conformity

Translation – Polish | Lithuanian | Czech | Slovak | Hungarian

YASKAWA

Ref.No. EZZ024397

Deklaracja zgodności WE | EB atitikties deklaracija | ES Prohlášení o shodě |
 Vyhlásenie o zhode ES | EK megfelelési nyilatkozat

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 Fukuoka Pref., 824-8511 Japan

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oświadcza z wyłączną odpowiedzialnością, że niżej wymienione wyroby są zgodne z odpowiednimi przepisami unijnymi
 prišlaidama atsakomybę pavaldina toliau nurodytų gaminių atitiklį
 Prohlasuje na svoju výhradní odpovědnost shodu níže uvedených výrobků
 potvrdzuje výlučnú zodpovednosť za zhodu pre nasledujúce výrobky
 saját kizárólagos felelősségére kijelenti, hogy a következő termékek megfelelnek az alábbiakban megfogalmazott
 követelményeknek

KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMDD****

Y = 1, 2 ... 9
 M = A...C and 1, 2 ... 9
 D = 0...9
 * = 0...9

Directive of the European Parliament and Council

Dyrektiva Parlamentu Europejskiego i Rady / Europos Parlamento ir Tarybos direktyva /
 Smernice Evropského parlamentu a Rady / Smernice Európskeho parlamentu a Rady /
 Az Európai Parlament és az Európai Tanács irányelve

Low Voltage Directive (LVD)

Dyrektywa dot. niskich napięć / Žemos įtampos direktyva / Smernice o zařízeních nízkého napětí /
 Smernica o nízkom napätí / Kisfeszültségről szóló irányelv

: 2014/35/EU

Electromagnetic Compatibility Directive (EMC)

Dyrektywa EMC / EMS direktyva / Smernice o elektromagnetické kompatibilitě /
 Smernica EMC / Elektromágneses összeférhetőségről szóló irányelv

: 2014/30/EU

Restriction of the use of certain hazardous substances (RoHS)

W sprawie ograniczenia stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym.
 Del tam tikrų pavojingų medžiagų naudojimo elektros ir elektroninėje įrangoje apribojimo.
 O omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních.
 O obmedzení používania určitých nebezpečných látok v elektrických a elektronických zariadeniach.
 Egyes veszélyes anyagok elektromos és elektronikus berendezésekben való alkalmazásának korlátozásáról.

: 2011/65/EU

Radio Equipment Directive (RED)

Dyrektywa w sprawie urządzeń radiowych / Radio ryšio įrangos direktyva
 Smernice o rádiových zařízeních / Smernica o rádiovom zariadení / Rádióberendezésekről szóló irányelv

: 2014/53/EU

Applied harmonized Standards

Zastosowane normy zharmonizowane
 Talkomi darnieji standartai
 Použité související normy
 Použitá harmonizované normy
 Alkalmazott harmonizált szabványok

EN 62368-1:2014
 EN 61800-3:2004/A1:2012
 EN 301 489-1 V1.9.2
 EN IEC 63000:2018
 EN 300 328 V2.2.2
 EN 301 489-1 V2.2.3
 EN 301 489-17 V3.2.4

Person located in the EU that is authorized to compile technical file

Osoba przebywająca w UE, która jest upoważniona do sporządzania dokumentacji technicznej
 ES esantis asmuo, įgalintas sudaryti techninę bylą
 Osoba se sídlím v EU, která je oprávněna sestavit technickou dokumentaci
 Osoba so sídlím v EU, ktorá je oprávnená zostaviť technickú dokumentáciu
 Az EU-ban található, műszaki dokumentáció összeállítására jogosult személy

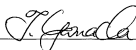
YASKAWA Europe GmbH
 Hauptstrasse 165, 65760 Eschborn,
 Germany

Place / Date

Miejscowość, data / Vieta, data / Miesto, dátum / Miesto, dátum / Hely, dátum

YASKAWA ELECTRIC CORPORATION

2-13-1 Nishimiyaichi Yukuhashi City
 Fukuoka Pref., 824-8511 Japan

5th. July. 2022


Drives Division
 General Manager

Tatsuya Yamada

EU Declaration of Conformity

Translation - Croatian | Slovene | Maltese

YASKAWA

Ref.No. EZZ024397

EZ Izjava o sukladnosti | Deklaracija o skladnosti ES | Dikjarazzjoni tal-KE dwar il-Konformità

YASKAWA ELECTRIC CORPORATION

2-13-1 Nishimiyaichi Yukuhashi City

Fukuoka Pref., 824-8511 Japan

declares under sole responsibility conformity of the following products

pod isključivom odgovornošću izjavljuje sukladnost sljedećih proizvoda
na lastno odgovornost potvrđuje skladnost naslednjih izdelkov
tidikjara taħt ir-responsabbiltà unika tagħha l-konformità tal-prodotti li ġejjin

KEYPAD for YASKAWA AC Drive New Series

Model: JVOP-KPLCC04□□□, JVOP-KPLCD04□□□

□ : A...Z and 0...9

Serial Number: YMDD****

Y = 1, 2 ... 9
M = A...C and 1, 2 ... 9
D = 0...9
* = 0...9

Directive of the European Parliament and Council

Direktiva Europskog parlamenta i Vijeća / Direktiva Evropskega parlamenta in Sveta
Direktiva Parlamenta un Padomes Direktiva / Euroopa Parlamendi ja nõukogu direktiv
Direttiva tal-Parlament Ewropew u tal-Kunsill

Low Voltage Directive (LVD)

Direktiva o niskom naponu / Nizkonapetostna direktiva
Direttiva dwar il-Voltage Baxx

: 2014/35/EU

Electromagnetic Compatibility Directive (EMC)

Direktiva o elektromagnetnoj kompatibilnosti (EMC) / EMC direktiva
Direttiva dwar l-EMC

: 2014/30/EU

Restriction of the use of certain hazardous substances (RoHS)

O ograničenju uporabe određenih opasnih tvari u električnoj i elektroničkoj opremi.
O omejevanju uporabe nekaterih nevarnih snovi v električni in elektronski opremi.
Dwar ir-restrizzjoni tal-użu ta' ertsi sustanzji perikoluzi fit-tagħmir elettriku u elektroniku.

: 2011/65/EU

Radio Equipment Directive (RED)

Direktiva o radio opremi / Direktiva o radijski opremi / Direttiva dwar il-Tagħmir tar-Radju

: 2014/53/EU

Applied harmonized Standards

Korišteni usklađeni standardi
Uporabljени usklajeni standardi
Standard applikati armonizzati

EN 62368-1:2014

EN 61800-3:2004/A1:2012
EN 301 489-1 V1.9.2

EN IEC 63000:2018

EN 300 328 V2.2.2
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Person located in the EU that is authorized to compile technical file

Osoba koja se nalazi u EU koja je ovlaštena sastavljati tehničku dokumentaciju
Osoba s sedežem u EU, ki je pooblašćena za sestavljanje tehnične dokumentacije
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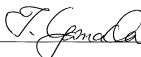
YASKAWA Europe GmbH
Hauptstrasse 185, 65760 Eschborn,
Germany

Place / Date

Mjesto, datum / Kraj, datum / Post, Data

YASKAWA ELECTRIC CORPORATION

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5th. July, 2022


Drives Division
General Manager

Tatsuya Yamada

◆ United Kingdom Conformity Assessed Marking (UKCA)



Figure 8.2 UKCA Mark

The UKCA mark indicates compliance with United Kingdom safety and environmental regulations.

It is required for engaging in business and commerce in the United Kingdom.

United Kingdom standards include the Supply of Machinery (Safety) Regulations (Machinery) for machine manufacturers, the Electrical Equipment (Safety) Regulations (Low voltage) for electronics manufacturers, and the Electromagnetic Compatibility Regulations (EMC) for controlling noise.

This product displays the UKCA Mark in accordance with [Table 8.1](#).

Table 8.1 Designated Standards

Statutory Instruments	Designated Standards
Electrical Equipment (Safety) Regulations S.I. 2016 No. 1101	EN 62368-1 */
Electromagnetic Compatibility Regulations S.I. 2016 No. 1091	• EN 61800-3 */ • EN 301 489-1 */

Statutory Instruments	Designated Standards
Radio Equipment Regulations S.I. 2017 No. 1206	EN 300 328 ^{*1}
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS) S.I. 2012 No. 3032	EN IEC 63000 ^{*1}

^{*1} Refer to the “UK Declaration of Conformity” for the year of the Designated Standards.

When using drives displaying the UKCA mark in combination with other devices, it is ultimately the responsibility of the user to ensure compliance with UKCA standards. Verify that conditions meet applicable United Kingdom standards after setting up the device.

◆ FCC and IC Certifications

The following Federal Communications Commission (FCC) and Industry Canada (IC) certifications compliance identification numbers have been assigned to this product:

- FCC ID: WAP2001
- IC: 7922A-2001

■ FCC ID: WAP2001

This product complies with Part 15 of the FCC Rules.

The operation of this product is subject to the following two criteria:

- This product will not cause harmful interference.
- This product is not susceptible to issues of interference including malfunction.

Note:

- This product has been tested and certified as compliant with Part 15 of FCC regulations as a Class A digital device. These regulations are intended to adequately protect against negative effects of interference when devices are used in commercial environments. This product generates and utilizes radio wave

energy, and therefore can be a source of radiation. Failure to install and use this product in accordance with the manuals may result in the causing of harmful wireless interference. Using this device in residential areas may cause harmful interference. The customer shall be responsible for any consequences of using this product in such environments.

- Yaskawa may demand the disuse of this product if you or your customer modifies the product.

■ IC7922A-2001

This product is compliant with RSS-GEN requirements. The operation of this product is subject to the following two criteria:

- This product will not cause harmful interference.
- This product is not susceptible to issues of interference including malfunction.

◆ Regulatory Compliance Mark (RCM)



Figure 8.3 RCM Mark

This product is compliant with the Australian Standard AS/NZS 4417.1 & 2 and the EESS.

◆ CMIIT Certification

The following China Radio Low (CMIIT) certification compliance identification numbers have been assigned to this product:

■ CMIIT ID: 2017DP5761

This product complies with CMIIT Rules.

◆ Japan Radio Law



Figure 8.4 Technical Conformity Mark

This product is compliant with the Japan Radio Law.

9 Disposal Instructions

Correctly discard these parts and materials as specified by regional, local, and municipal laws and regulations for this product:

- Battery
- microSD card

⚠ CAUTION *Fire Hazard. Put electrical tape fully around the battery before you discard it. If you do not correctly discard the battery, it can cause a fire.*

Note:

- Remove the battery and microSD card from the keypad.
- You cannot recycle the battery. Discard used batteries as specified by the battery manufacturer.
- Customers are responsible for microSD card data protection.
PC functions that format and delete the data may not be sufficient to fully erase the microSD card data. Yaskawa recommends that customers physically destroy the microSD card in a shredder or use data wipe software to fully erase the card.

◆ WEEE Directive



The wheeled bin symbol on this product, its manual, or its packaging identifies that you must recycle it at the end of its product life.

You must discard the product at an applicable collection point for electrical and electronic equipment (EEE). Do not discard the product with usual waste.

10 Specification

Table 10.1 Option Hardware Specifications (Common)

Item	Description
Model	- Standard specification: JVOPKPLCC04Axx - Moisture resistance and dust resistance specification: KPLCC04Mxx
Port	RJ-45
Power Supply	Supply from drive (DC +5 V $\pm$ 5%)
Operating Ambient Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Operating Ambient Humidity	95% RH or less (no condensation)
Storage Ambient Temperature	-20 °C to +70 °C (-4 °F to +158 °F) (short-term storage temperature during transport)

Item	Description
Area of Use	Indoor (an area without corrosive gas, or dust)
Altitude	1000 m (3281 ft) Maximum
Vibration	10 Hz to under 20 Hz: 9.8 m/s ² (1 G) 20 Hz to under 55 Hz: 5.9 m/s ² (0.6 G)
Harmonized Standard	• European Standards (CE) • United Kingdom Conformity Assessed Marking (UKCA) • Federal Communications Commission (FCC) • Industry Canada (IC) • Safety Standards (Regulatory Compliance Mark: RCM) • China Radio Law (CMIIT) • Japan Radio Law (MIC)
Approximate Number of Parameter Reads	100,000 maximum
Battery for Clock Backup	JVOP-KPLCC04xxB (Battery supplied) JVOP-KPLCC04xxA (Battery not supplied) Yaskawa recommends a Hitachi Maxell CR2016 Lithium Manganese Dioxide Lithium Battery or an equivalent battery with these properties: Battery life (REV: H and earlier, REV: J and later, when the battery is new): • 5 years (20 °C (68 °F)) • 3.5 years (-10 °C to +50 °C (14 °F to 122 °F)) Battery life (REV: I, when the battery is new): • 2.5 years (20 °C (68 °F)) • 1.8 years (-10 °C to +50 °C (14 °F to 122 °F))
Moisture and Dust Resistance and Dust Specifications	Insulating varnish (HumiSeal) is applied at the factory to the entire surface of the board, excluding connectors. (JVOP-KPLCC04Mxx only)

Table 10.2 Bluetooth Communication Specifications

Item	Description
Bluetooth Standard	Bluetooth Ver. 4.1 Single Mode (Smart)
Certification	Bluetooth SIG Registered
Antenna Type	Planar-inverted F-type internal PCB antenna
Radio Band	2400 to 2480 MHz
Antenna Gain	Maximum of 0.5 dBi

11 Warranty

◆ Warranty Period

The period is 12 months from the date the product is first used by the buyer, or 18 months from the date of shipment, whichever occurs first.

◆ Post-Warranty Repair Period

The post-warranty repair period applies to products that are not in the standard warranty period. During the post-warranty repair period, Yaskawa will repair or replace damaged parts for a fee.

There is a limit to the period during which Yaskawa will repair or replace damaged parts. Contact Yaskawa or your nearest sales representative for more information.

◆ Cyber Security Disclaimers

This product is designed to transmit and receive data over a network interface. Users are responsible for network security regarding connectivity between this product and the customer network or some other network. Users are responsible for establishing and maintaining appropriate systems (such as firewalls, authentication, data encryption, and antivirus software) to protect the product, networks, systems, and interfaces against

any kind of security breaches, unauthorized access, interference, intrusion, and loss/theft of data or information.

Yaskawa and its affiliates shall not be liable for any damages incurred due to security breaches, unauthorized access, interference, intrusion, and loss/theft of data.

◆ About Application of This Product

This product is not designed or manufactured for use in life-support machines or systems.

Contact a Yaskawa representative or your Yaskawa sales representative if you are considering the application of this product for special purposes, such as machines or systems used for passenger cars, medicine, airplanes and aerospace, nuclear power, electric power, or undersea relaying.

⚠ WARNING *Injury to Personnel. When you use this product in applications where its failure could cause the loss of human life, a serious accident, or physical injury, you must install applicable safety devices. If you do not correctly install safety devices, it can cause serious injury or death.*

Revision History

Date of Publication	Revision Number	Section	Revised Content
July 2025	7	Back cover	Revision: Address
November 2023	6	All	Revision: Reviewed and corrected entire documentation Addition: Compatible models • LA700
		Chapter 5	Addition: • Connect DriveWizard Deletion: • Information on REV: C or earlier keypad
		Chapter 8	Addition: • European Standards (CE) • United Kingdom Conformity Assessed Marking (UKCA)
May 2022	5	Chapter 2	Addition: For Yaskawa Customers in the North or South America Regions
October 2021	4	All	Revision: Reviewed and corrected entire documentation Addition: Compatible models • FP605
		Chapter 8	Addition: • EU Declaration of Conformity • Regulatory Compliance Mark (RCM)
May 2019	3	All	Revision: Revision: Reviewed and corrected entire documentation. Upgraded keypad software version to REV: G. Addition: Compatible models • GA800 • GA500

Date of Publication	Revision Number	Section	Revised Content
		Chapter 5	Revision: Bluetooth Mode and Normal Operation Mode Addition: Installation procedure for GA500 drives
		Chapter 8	Deletion: Precautions for Korean Radio Waves Act
		Chapter 9	Addition: WEEE Directive
May 2018	2	All	Addition: • Support for iOS of DriveWizard Mobile • China Radio Law
June 2017	1	All	Revision: Reviewed and corrected entire documentation
		Chapter 2	Addition: Compatible models • CR700 • CH700
		Chapter 8	Deletion: Precautions for Korean Radio Waves Act
		Chapter 9	Addition: Disposal Instructions
September 2016	-	-	First Edition

YASKAWA AC Drive Option Bluetooth® LCD Keypad Installation Manual

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YASKAWA

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In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Act. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply.

Specifications are subject to change without notice for ongoing product modifications and improvements.

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