

INVERTER

Enclosure surface operation panel

FR-PA07 INSTRUCTION MANUAL

Thank you for purchasing the enclosure surface operation panel (FR-PA07). This instruction manual gives handling information and precautions for use of this product. Incorrect handling might cause an unexpected fault. Before using this product, please read this manual carefully to use this product to its optimum performance.

Please forward this instruction manual to the end user.

This product is an option dedicated for the FR-E700/D700/F700PJ/E700EX series.

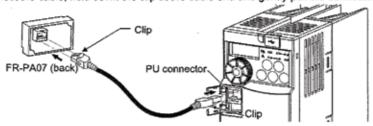
Refer to the inverter unit's Instruction manual for details on the operation panel functions, operation methods and handling methods.

⚠ Safety precautions

- Do not touch the setting dial or keys with wed hands. Doing so may cause an electric shock.
- Do not install and operate the enclosure surface operation panel (FR-PA07) if it is damaged or has parts missing.
- Provide a safety backup device, such as an emergency brake, to protect machines and product from hazardous conditions if the enclosure surface operation panel (FR-PA07) becomes faulty.
- Static electricity in your body must be discharged before you touch the product. Otherwise the product may be damaged.
- If halogens (including fluorine, chlorine, bromine, and iodine) contained in fumigants for wood
 packages enter this product, the product may be damaged. Prevent the entry of fumigant
 residuals or use an alternative method such as heat disinfection. Note that sterilization or
 disinfection of wood packages should be performed before packing the product.

1. Connection

- Use the FR-CB20□ connection cable. Insert one end of the cable into the PU connector on the
 inverter, and the other end into the connection connector on the FR-PA07 along the guides until
 the clips click into place. (For the details of the FR-CB20□, refer to the Instruction Manual of the
 FR-CB20□.)
- To disconnect the cable, hold down the clip at the cable end and gently pull the connector.



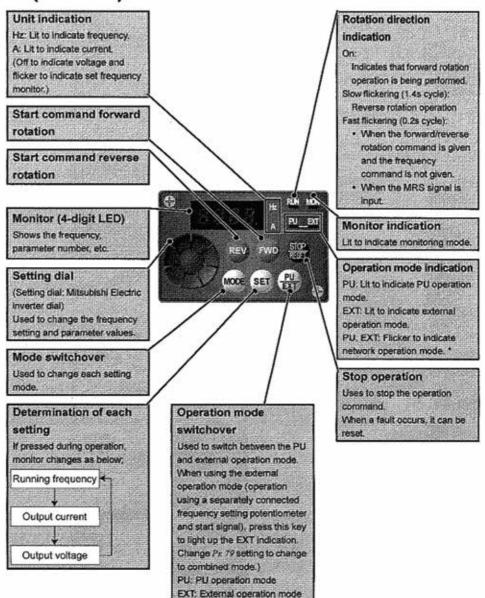
Example: FR-E700

(1)

NOTE

Install the FR-PA07 only when the front cover is installed.

2. Names and functions of the operation panel (FR-PA07)



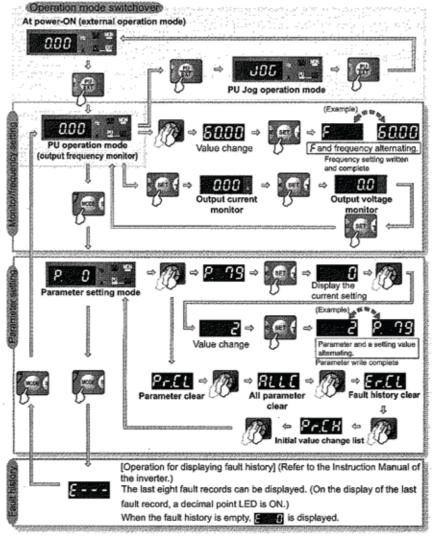
^{*} Both PU and EXT are off on the inverters manufactured during or before the period shown by the serial numbers described on page 7.

3. Operation

3.1 Basic operation

Basic operation is as follows.

The parameter copy function is not available in this product.



REMARKS

When Pr.551 PU mode operation command source selection = "9999 (initial value)", the
priority of the command source in PU operation mode is defined as follows: USB
connector > FR-PA07 > operation panel. (Refer to the Instruction Manual (Applied) of
each inverter for the details.)

3.2 Operation lock (Press [MODE] for a while (2s))

Operation using the setting dial and key of the FR-PA07 can be made invalid to prevent parameter change, and unexpected start or frequency setting.

Set "10 or 11" in Pr. 161, then press (MODE) for 2s to make the setting dial and key operation invalid.

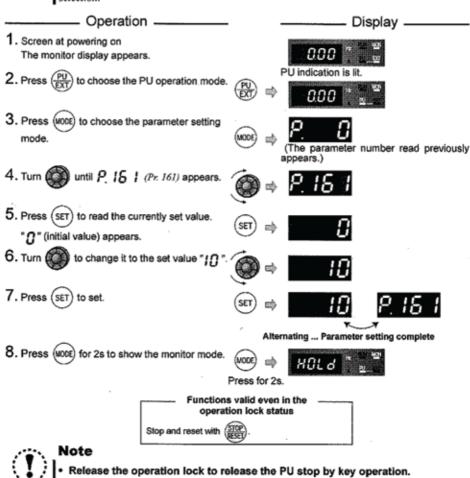
When the setting dial and key operation is made invalid, HGL d appears on the operation panel.
 When the setting dial and key operation is invalid, HGL d appears if the setting dial or key operation is performed. (When the setting dial or key operation is not performed for 2s, the monitor display appears.)

To make the setting dial and key operation valid again, press (MODE) for 2s.



POINT

Set "10 or 11" (key lock mode valid) in Pr. 161 Frequency setting/key lock operation selection.



3.3 Use the setting dial like a potentiometer to perform operation



POINT

Set "1" (setting dial potentiometer mode) in Pr. 161 Frequency setting/key lock operation selection.

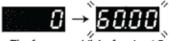
Changing example | Changing the frequency from 0Hz to 60Hz during operation

Operation-Display Screen at powering on The monitor display appears. PU indication is lit 2. Press (PU) to choose the PU operation mode. Change the Pr. 161 setting to "1". (Refer to page 4 for change of the setting.) Press (MODE) twice to return the monitor to frequency monitor. Press (FWD)/(REV) to start the inverter.

5. Tum 🎉 🗿 until " 🔓 🖺 🖺 🐧 "(60.00Hz)

appears. The blinking frequency is the set frequency.





The frequency blinks for about 5s.



REMARKS

You need not press (SE

- If blinking "60.00" turns to "0.00", the Pr. 161 Frequency setting/key lock operation selection setting may not be "1".
- Independently of whether the inverter is running or at a stop, the frequency can be set by merely turning the (Use Pr. 295 Magnitude of frequency change setting to change the frequency setting increments of (

4. Specifications

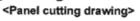
4.1 Standard specifications

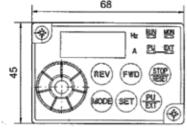
Item	Specifications -10°C to +50°C (non-freezing)	
Surrounding air temperature		
Ambient humidity	90%RH or less (non-condensing)	
Storage temperature	-20°C to +60°C*	
Ambience	Indoors (free from corrosive gas, flammable gas, oil mist, dust and dirt)	
Altitude, vibration	Maximum 1000m above sea level for standard operation. 5,9m/s ² or less at 10 to 55Hz (diretions of X, Y, Z axes)	
Power supply	Power is supplied from the inverter.	
Connection method	Connection using the parameter unit connection cable (FR-CB20□)	

^{*} Temperature applicable for a short time, for example, in transit.

4.2 Outline drawing and panel cutting drawing <Outline drawing>

68 14 행 행 PU DY 45









(Unit: mm)

5. Instructions

For the FR-E700 series inverters manufactured during or before the period shown by the following serial numbers, there are restrictions mentioned below.

- Parameter copy (PEPS) is displayed, but parameter copy (reading, writing, or verification) does not function. Display turns into the reading indication, but reading is not executed. If writing or verification is executed, an error occurs.
- Initial value change list (Pr. [H) cannot be used.
- Easy setting mode (press (LODE) and (PU) simultaneously (0.5s)) cannot be used to change the operation mode.
- SERIAL number check
 Refer to the instruction Manual of the inverter for the position of the rating plate.

Rating plate example

Symbol Year Month Control number

SERIAL (Serial No.)

The SERIAL consists of one symbol, two characters indicating production year and month, and six characters indicating control number.

The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).

Туре	SERIAL number	
FR-E720-0.1K to 0.75K	J70000000	
FR-E720-1.5K to 5.5K	K70000000	
FR-E720-7.5K	L70000000	
FR-E720-11K, 15K	G70000000	

Type	SERIAL number
FR-E740-0.4K to 7.5K	D7000000

 The parameter copy menu (P[P3]) is not displayed on this product connected to FR-E700 series inverters manufactured after the above period.