

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 equipment. Incorrect handling might cause an unexpected fault. Before using the equipment, please read this manual carefully to use the equipment to its optimum performance.

Please forward this instruction manual to the end user.

This product is an option dedicated for the FR-E700 series.

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

▲ Safety precautions

- Operate the keys with dry hands to prevent 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 equipment from hazardous conditions if the enclosure surface operation panel (FR-PA07) becomes faulty.
- To prevent damage from static electricity, touch a piece of metal nearby before touching this product to remove any body static electricity.

1. Instructions

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

- 1) Parameter copy (PCPJ) 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.
- 2) Initial value change list (P r f H) cannot be used.
- Easy setting mode (press (mode) and (PU EXT) simultaneously (0.5s)) cannot be used to change the operation mode.
- SERIAL number check Refer to the inverter manual for the position of the rating plate.

Rating plate example

Symbol Year Month Control number

The SERIAL consists of 1 version symbol, 2 numeric characters or 1 numeric character and 1 alphabet letter indicating year and month, and 6 numeric characters indicating control number. Month is indicated as 1 to 9, X (October), Y (November), and Z (December).

Туре	SERIAL number
FR-E720-0.1K to 0.75K	J70000000
FR-E720-1.5K to 5.5K	K7000000
FR-E720-7.5K	L70000000
FR-E720-11K, 15K	G7000000

 Type
 SERIAL number

 FR-E740-0.4K to 7.5K
 D70000000

2. Connection

2.1 Installation using a connection cable (FR-CB20D)

Securely insert one end of connection cable into the PU connector of the inverter and the other end into the connection connector of the FR-PU07 along the guides until the stoppers are fixed.





NOTE

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



For details of the connection cable (FR-CB20□), refer to the connection cable (FR-CB20□) instruction manual.

2.2 Removal when the connection cable (FR-CB20⁽)) is used

Hold down the tab (stopper) at the cable end and gently pull the plug.

3. 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 1*.

4. Operation

4.1 Basic operation



* Initial value change list (P_{r} , L_{H}) functions in the inverters manufactured during or after the period shown by the serial numbers described on *page 1*.

Although P[P] is displayed, parameter copy does not function. (Refer to page 1)

4.2 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, <code>HDL d</code> appears on the operation panel. When the setting dial and key operation is invalid, <code>HDL d</code> 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.



Release the operation lock to release the PU stop by key operation.

4.3 Use the setting dial like a potentiometer to perform operation



frequency setting increments of

5. Specifications

5.1 Standard specifications

ltem	Specifications
Ambient temperature	-10°C to +50°C (non-freezing)
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
Power supply	Power is supplied from the inverter.
Connection method	Connection using the parameter unit connection cable (FR-CB20□)

5.2 Outline drawing and panel cutting drawing



