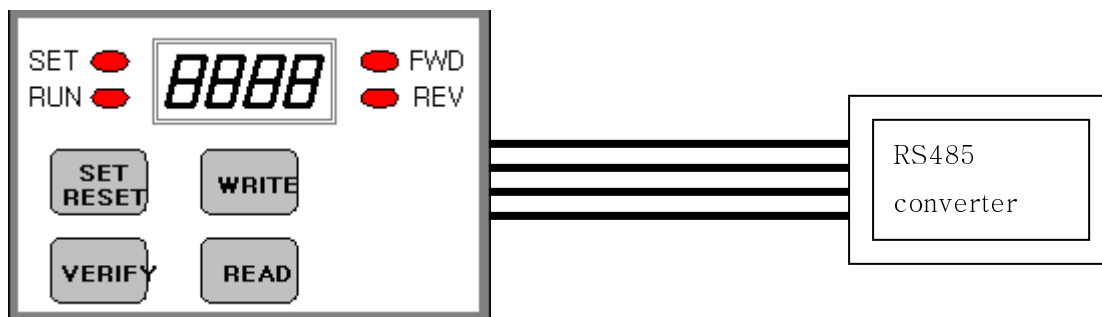
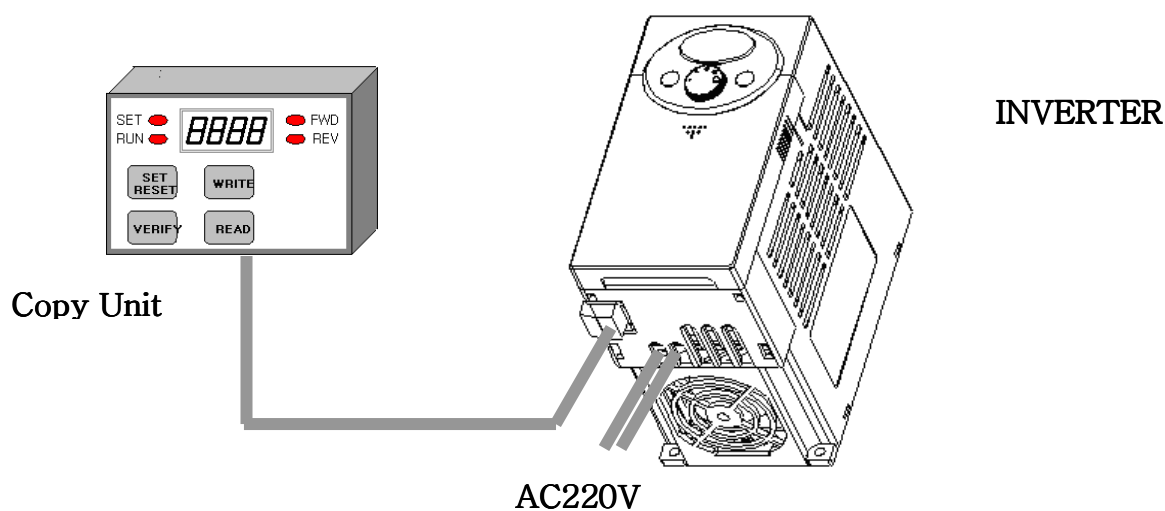


## 1. FEATURE

- Communication mode: Modbus-RTU
- Display: 4 7-SEGMENTS , 4 LED, 4 INPUT KEY
- Function: parameter copy, display inverter initial value



## 2. INSTALLATION



1. Remove the top cover and bottom cover of iC5.
2. Connect the RS485 converter to the connector in iC5.
3. Connect the Copy Unit to RS485 converter.
4. Turn the 220V AC input line.
5. If the loader of Copy Unit displays the same value in inverter's, it should be installed correctly.





### 3. KEYPAD

#### 1) Display

##### ① LED Display

Status	SET-LED	RUN-LED	FWD-LED	REV-LED
SET Mode	ON	X	X	X
FWD-RUN	X	ON	ON	OFF
REV-RUN	X	ON	OFF	ON
Err	blink	blink	blink	blink

##### ② 7 SEG Display

7 Seg Display	Descriptions
	Display of copying the data in inverter to the copy unit (blinking time is 600ms)
	Display of writing the data in the copy unit to inverter (blinking time is 600ms)
	Display of verifying the data in the copy unit with the data in inverter (blinking time is 600ms)
	Display of err occurred in copying and writing, verifying. (blinking time is 600ms)

#### 2) Keypad features.

Key name	Functions
SET /RESET	To use this key in the display mode, Change the status to the setting mode. Push the setting button, then SET_LED will blink. If you push the setting button once more. SET_LED will be turned off. In the setting mode, you can use the function key of 'Read' and 'write', 'verify'.
WRITE	To write the data in copy unit to inverter. If there is no data in copy unit or inverter is running motor, writing function does not work.
VERIFY	To verify the data in copy unit by the data in inverter.
READ	To copy the data in inverter to copy unit

3) To find the communication speed and the communication ID of inverter.

If copy unit is initialized, the speed of communication should be 9600bps and the ID of inverter should be 1st.

Success to communicate	Failure to communicate
If the speed of communication that set in inverter is 9600bps, it works properly. And copy unit will display the initial value of inverter.	If the speed of communication that set in inverter is not 9600bps, it displays <i>rErr</i> message and the LED blinks.

When '*rErr*', occurs, to push reset button will make the copy unit search the correct communication speed and inverter's ID.

4) To read parameters

	SEGMENT	SET_LED	RUN_LED	Description
	<i>60.00</i>	Off	x	Push the SET key.
	<i>60.00</i>	On	x	Push the READ key.
	<i>rEAd</i>	blinking	blinking	When it finishes reading parameter, SET_LED will be off. Then it will be in display-mode.
	<i>60.00</i>	Off	x	If the READ function works correctly, it displays the initial value of inverter. But If there is a problem in reading, it displays <i>rErr</i> blinking. In err occurring, to push the SET button change the status to display-mode.

5) To write parameters

	SEGMENT	SET_LED	RUN_LED	Description
	<i>60.00</i>	Off	x	Push the SET key.
	<i>60.00</i>	On	x	Push the WRITE key. In order to use the WRITE function, inverter must be not running.

		blinking	blinking	When it finishes writing parameter, SET_LED will be off. Then it will be display-mode.
		Off	x	If the WRITE function works correctly, it displays the initial value of inverter. But If there is a problem in writing, it displays  blinking. In err occurring, to push the SET button change the status to display-mode.

## 6) To verify parameters

	SEGMENT	SET_LED	RUN_LED	Description
	<i>60.00</i>	Off	x	Push the SET key.
	<i>60.00</i>	On	x	Push the VERIFY key. When WRITE function is used, inverter must be not running at all.
	<i>urF</i>	blinking	blinking	When it finishes verifying parameter, SET_LED will be off. Then it will be display-mode.
	<i>60.00</i>	Off	x	If the VERIFY function works correctly, it displays the initial value of inverter. But If there is a problem in reading, it displays <i>rErr</i> blinking. In err occurring, to push the SET button change the status to display-mode.