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1 / COMPONENT NAME OF OPERATION PANEL (PU301C)

1.1 Component name of PU301C



NO.	Operation parts	Name	Content
(a)	LCD screen	LCD screen	Display menu, frequency, parameter number, parameter
(0)			name and parameter value, etc.
(b)		Indicating lamp of power	Light up when the panel powers on.
(c)		Indicating lamp of alarm	Light up when the inverter alarm happens.
(d)	ESC	ESC button	Escape from the current interface.
(e)	MODE	MODE button	Switch the panel mode.
(f)	$\langle \rangle$	Left button, Right button	When setting value digit, choose the target digit.
(g)	WRITE	WRITE button	Write parameter value, frequency, etc.
(h)		STOD/DESET button	Stop run command.
(11)	RESET	STOP/RESET DUILON	Reset the inverter when the inverter alarm happens.
(i)		EW/D button BEV/ button	FWD: Forward rotation is activated, and LED power is on.
(1)			REV: Reverse rotation is activated, and LED power is on.
(i)	READ	READ button	Read the parameter.
0)			Enter into the next menu.
(k)	FUNC	FUNC button	Enter into the main menu.
		UD hutten DOW/N hutten	UP: Increase the value. Switch the option.
(1)			DOWN: Decrease the value. Switch the option.
	\wedge		The function of clockwise rotation equals to UP button.
(m)	€:Э	M Setting dial	The function of anticlockwise rotation equals to DOWN
			button.

1 / COMPONENT NAME OF OPERATION PANEL (PU301C)

1.2 PU301C appearance



Ordering code:

NO.	Туре	Name	Ordering Code
1	PU301C	LCD parameter unit	SNKPU301C

1.3 PU301C dimensions

<Outline drawing>







1.4 Panel mounting cutout dimension

COMPONENT NAME OF OPERATION PANEL (PU301C)



1.5 Flange mounting cutout dimension

1

Dimensional drawing of opening of fastener mounting panel>



Panel thickness	1.2mm	1.6mm	2.0mm
W		66.4	
Н	110.2	111.3	112.5

*Allowable error:±0.15mm

*If customer cutout accuracy cannot meet the allowable error, please purchase SMK301 (Snap Mounting Kit) for installation.

2

Use the MODE button to switch the main screen.



2.1 Switch of the Monitor Screen

2.1.1 Monitor function

Two types of monitor screen: 1.Display one group 2. Display three groups (Note: Please refer to 3.2.1 Monitor setting for the switch of one group and three groups)



other monitoring variables.

(1) Main monitor

∴Use	<	or	>	to switch monitor screen(refer to
------	---	----	---	-----------------------------------

2.1.1 Display one group)



monitor items of "output voltage" screen(refer to 2.1.1 Display

one group).

(2) Operation mode

Display the current operation mode.

OPND : External mode.

PU : PU mode.

JOG : JOG mode.

CU : Communication mode.

H1 : Combined mode 1.

- : Combined mode 2.
- : Combined mode 3.
- H4 : Combined mode 4.
- FIRE : Fire mode。
- : Combined mode 5. H5

RETE: The second instruction takes effect.

(3) Time

The time function of PU301C is closed by default. Start time before using the function. (Start time, please refer to 3.2.9 (3) "Time start"; Set time, please refer to 3.2.9(4)"Time setting")). (4) PLC mode When the PLC function of the inverter is in the running state,

"PLC" will be displayed in the lower left corner of the monitoring screen, indicating that the inverter is currently in the PLC running state.



(7) Running direction

Alarm indicates that the inverter current state is in abnormality.

Please refer to the SA3 User Manual.

OL : Inverter overcurrent.

(5) Alarm

OLV : Inverter overvoltage.

LV : Inverter under voltage.

FIRE: The inverter enters fire mode.

FWD : The inverter is in forward rotation.

REV : The inverter is in reverse rotation.

- STOP : The inverter stops.
- (8) Abnormal alarm display

When the abnormal alarm occurs, the operator will display the

abnormal alarm. For detailed description of the abnormal alarm,

please refer to the instruction manual of the inverter.



(6) Unit

Display the unit of the main monitor.

(7) Running direction

Display the inverter current running direction

2.1.2 Display one group

Display one group, means each screen only displays the monitor of one item, and the whole monitor mode can display the monitor of three items. Switch the monitor screens through Right and Left button. As the figure shows:



The third monitor screen is "output voltage" monitor by default, in which can change different items to monitor. As the figure shows:



2.1.3 Display three groups

Display three groups, means monitor screen displays the monitor of three items at the same time. Switch the monitor on the third line through Right and Left button to monitor different items. As the figure shows:



2.2 Frequency Setting

Frequency setting method 1

1	Press MODE to switch to the Target Setting screen.	TAR. SET O. OO Hz pu 0. 00~120. 00 stop
2	Press or book to switch to the position of the desired target value	tar. set 00. 00 _{Hz}
3	Press or or or	TAR. SET 60. 00Hz pu 0. 00~120. 00 stop
4	Press WRITE to target setting completed.	TAR. SET 60. 00Hz pu 0. 00~120. 00 stop

Frequency setting method 2

1	Press MODE to switch to frequency setting screen.	TAR. SET O. OO Hz pu 0. 00~120. 00 stop
2	Press or or or to set the size of the target.	TAR. SET 60.00Hz pu 0.00~120.00 stop
3	Press WRITE to target setting completed.	TAR. SET 60.00Hz pu 0.00~120.00 stop

2.3 Parameter Setting



2.4 Operation Mode



P.79=1 INV. MODE NV. MODE \mathbf{PI}

In PU mode, the button-left corner of the screen

displays "PU".

1.

In external mode, the button-left corner of the 2. screen displays "OPND".

In JOG mode, the button-left corner of the screen 3. displays "JOG".

In communication mode, the button-left corner of 4 the screen displays "CU".

In combined mode 1, the button-left corner of the 5. screen displays "H1".

screen displays "H2".

7. In combined mode 3, the button-left corner of the screen displays "H3".

8. In combined mode 4, the button-left corner of the screen displays "H4".

In combined mode 5, the button-left corner of the 9. screen displays "H5".

10. The second command right to take effect screen shows "Rete" in the lower left corner.

11. "Fire" is displayed in the lower left corner of the FIRE mode screen.

6. In combined mode 2, the button-left corner of the

3.1 Overview of Main Menu

Press FUNC button to enter into the main menu. Multiple functions can be set through the main menu.



3.1.1 Menu options

Menu	Description	Reference	
MONITOR	It is used to select monitor modes of different styles.		
INV.MODE	Set external mode, PU mode and JOG mode.		
PR.SET	Multiple operations can be made on parameters.		
ALARM HIS	Check the happened alarm and the relative information.		
PR.COPY	Copy and paste the parameters.		
PLC	PLC Reserved.		
RESET OPER	Operate multiple reset functions.		
VERSION	ERSION Check the PU301C version and the inverter version.		
FUNC.SET	JNC.SET Set the multiple functions of PU301C.		

3.1.2 Function menu transition





3.2 Operation Procedures for Functions

3.2.1 Monitor setting

In "MONITOR", you can set the display mode of monitor screen.



3.2.2 Operation mode

You can set PU mode, JOG mode and OPND mode in

3.2.3 Parameter setting

	Display	Description
1	Free set	You can free read and write the parameter setting.
2	Pr. list	Displays the parameter list. You can select the parameter from the list to read and write the parameter setting.
3	Changed pr	Displays the parameter list in which the parameter value is different from the factory value. You can select the parameter from the list to read and write the parameter setting.
4	App.pr	Reserved
5	User list	Reserved
6	Factory parameter	Reserved

(1) Free setting

-	1	Press FUNC to enter into main menu.	0*MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS			Press \triangleleft or \rightarrow , then press \land or \checkmark or $$ to set parameter number.	PR. SET P0007 0~1599
2	2	Press or or or to move the cursor to "2 PR.SET".	0 MONITOR 1 INV.MODE 2+PR.SET 3 ALARM HIS	-	7	Press READ to enter into parameter value display screen.	P0007 5.00s Acc time 5.00 0.00 ~ 360.00
3	3	Press READ to enter into parameter setting list.	0*Free set 1 Pr.list 2 Changed pr 3 App.pr PR.SET P 0 0~1599		8	Pressor	P0007 5.00s Acc time 100.00 0.00 ~ 360.00
4	1	Press \land or \checkmark or \checkmark or \bigcirc or \bigcirc to move the cursor to "0 Free set".				Press <_or >_ , then press ^_ or <or set<="" th="" to="" ⊕=""><th>P0007 5.00 Acc time 100.00</th></or>	P0007 5.00 Acc time 100.00
Ę	5	Press READ to enter into free setting list.			9	parameter value.	0.00 ~ 360.00 P0007 100.00s
6	6	Press or or or for to set parameter number.	PR. SET P 7 0~1599			parameter value setting.	Acc time END 0.00 ~ 360.00

(2) Parameter list

1	Follow 1~3 steps of "Free setting" to enter into parameter setting.	0*Free set 1 Pr.list 2 Changed pr 3 App.pr
2	Press \frown or \checkmark or \checkmark or \frown to move the cursor to "1 Pr.list".	0 Free set 1*Pr.list 2 Changed pr 3 App.pr
3	Press READ to enter into parameter list.	P0000+Torque bo↓ P0001 Max freque P0002 Min freque P0003 Base frequ
4	Press or or or cursor to the setting parameter.	P0005+Multi-Spe⊧ P0006 Multi-Spee P0007 Acc time P0008 Dec time

5	Press READ to enter into the selected parameter.	P0008 5.00s Dec time 5.00 0.00 ~ 360.00 5.00
6	Press or or or and or to change the parameter value.	P0008 5.00s Dec time 150.00 0.00 ~ 360.00 5.00
7	Press WRITE to finish parameter value setting.	P0008 150.00s Dec time END 0.00 ~ 360.00 5.00

5.00

(3) Parameter changed

The parameter number of which the value is different from the factory value will be displayed in list.

1	Follow 1~3 steps of "Free setting" to enter into parameter setting.	0*Free set 1 Pr.list 2 Changed pr 3 App.pr	5	Press READ to enter into the selected parameter.	P0007 5.00s Acc time 5.00 0.00 ~ 360.00 5.00
2	Press or vor \mathbf{C} or vor \mathbf{C} or \mathbf{C} to move the cursor to "2 Changed pr".	0 Free set 1 Pr.list 2*Changed pr 3 App.pr	6	Press or or or for or o	P0007 5.00s Acc time 100.00 0.00 ~ 360.00 5.00
3	Press READ to enter into changed parameter list.	P0007* 5.01 P0008 150 00	7	Press write to finish parameter value setting.	P0007 100.00s Acc time END 0.00 ~ 360.00 5.00
4	Press or or or to the setting parameter.	P0077 99999 P0079 1		L	

(4) Application parameter

Reserved.

(5) User list

Reserved.

3.2.4 Alarm history

Shows the history of past twelve alarms. You can check the relative information on each alarm.

1	Press FUNC to enter into main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS	5		Fre.: 0.00 Curr.: 0.00 Vol.: 0.00 INV.T: 0.00
2	Press \frown or \checkmark or \checkmark or \frown or to move the cursor to "3 ALARM HIS".	0 MONITOR 1 INV.MODE 2 PR.SET 3*ALARM HIS		Press READ to check the information on the selected alarm.	INV.T: 0.00 PN vol: 322 Oper.tm: 0 State: 0 •
3	Press READ to enter into alarm history list.	00+0HT			State: 0 Date: 14/04/02 Time:.12-00-00 Fre.: 0.00
4	Press \frown or \checkmark or \checkmark or \bigcirc or \bigcirc or \bigcirc to move the cursor to the target alarm.	01 GOOD 02 GOOD 03 GOOD		1	<u> </u>

3.2.5 Parameter copy

(1) Read parameter

Through "Read pr", you can copy the parameter setting and store it into PU301C. Also, you can find the motor model and the stored date of the parameter. There are three parts in PU301C to store the read parameter value. Parameter copy cannot be carried out under the inverter operation.

1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS	5	Press READ to enter into the next menu.	00*Read pr 01 Write pr
2	Press or or or to move the cursor to "4 PR COPY".	1 INV. MODE 2 PR. SET 3 ALARM HIS 4*PR. COPY	6	Press \frown or \checkmark or \checkmark or \bigcirc or \bigcirc to move the cursor to "00 Read pr".	02 Clear pr
3	Press READ to enter into the changed parameter list.	00*(none)	7	Press write to read parameter.	Read pr 100% END
4	Press or v or to move the cursor to the setting parameter.	02 (none)		1	<u>.</u>

(2) Write parameter

Write the parameter value stored in PU301C into the inverter. The parameter can be correctly written only in the same series and the same inverter model. Parameter copy cannot be carried out under the inverter operation or communication mode.

1	Follow the1~5 steps of "Read parameter".	00*Read pr 01 Write pr 02 Clear pr	3	Press write parameter.
2	Press or or or to move the cursor to "01 Write pr".	00 Read pr 01*Write pr 02 Clear pr		

(3) Clear parameters

Erase and clear a set of parameter values stored in PU301C.

1	Same as reading parameters 1~5 steps.	00*Read pr 01 Write pr 02 Clear pr
2	Press or or or or to point the cursor to the clear parameter.	00 Read pr 01 Write pr 02 Clear pr
3	Press WRITE to clear parameters.	Clear pr END

3.2.6 The PLC function

Reserved

3.2.7 Reset operation

(1) Alarm clear

Clear all alarm history and the relative information, as

with parameter 00-02=1 ($\mathsf{P.996}$),

(2) Inverter reset

Resets the inverter , operating with parameter ,

00-02=2 (P.997)

1	Press FUNC to enter	0 MONITOR 1 INV.MODE 2 PR.SET	1	Press FUNC to enter into the main menu.	0-MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
	into the main menu.	3 ALARM HIS	2	$\begin{array}{c} Press \frown or \lor or \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ $	3 ALARM HIS 4 PR. COPY
2	Pressoror	3 ALARM HIS 4 PR COPY		cursor to "6 RESET OPER".	5 PLC FUNC 6*RESET OPER
	cursor to "6 PR COPY".	5 PLC FUNC 6*RESET OPER	3	Press READ to enter into reset operation list.	0*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1
3	Press READ to enter into reset operation list.	0*Alarm clear	4	Press or or or to move the	0 Alarm clear 1°INV.reset 2 Pr all clear
4	Press or or	1 INV.reset 2 Pr.all clear		cursor to "1 INV reset ".	3 Pr. clear 1
	to move the cursor to "0 Alarm clear ".	3 Fr. clear 1	5	Press write to reset	INV. reset
5	Press WRITE to clear alarms.	Alarm clear Er.CL		inverter.	

(3) Parameter reset

Parameter Restore factory Settings, same as parameter 00-02=3 (P.998)

1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press \frown or \bigtriangledown or \bigcirc or to move the cursor to "5 RESET OPER".	3 ALARM HIS 4 PR.COPY 5 PLC FUNC 6*RESET OPER
3	Press READ to enter into reset operation list.	0*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1
4	Press or or or to move the cursor to "2 Pr.all clear".	0 Alarm clear 1 INV.reset 2*Pr.all clear 3 Pr.clear 1
5	Press WRITE to reset parameter.	Pr.all clear END

(4) Parameter clear 1

Operates with the parameter 00-02=4 (P.999 = 1)

1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press \land or \checkmark or \backsim or \backsim or \backsim or \checkmark or \backsim or {}	3 ALARM HIS 4 PR.COPY 5 PLC FUNC 6+RESET OPER
3	Press READ to enter into reset operation list.	0*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1
4	Press or or or for to move the cursor to "3 Pr.clear 1".	0 Alarm clear 1 INV.reset 2 Pr.all clear 3*Pr.clear 1
5	Press WRITE to clear parameter 1.	Pr.clear 1 END

(5) Parameter clear 2

Ope	Operates with the parameter 00-02=5 (P.999 = 2))			
1	Press FUNC to enter the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS		
2	Press or or or for to move the cursor to "5 RESET OPER".	3 ALARM HIS 4 PR.COPY 5 PLC FUNC 6*RESET OPER		
3	Press READ to enter into reset operation list.	0*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1		
4	Press \frown or \checkmark or \checkmark or \bigcirc or \bigcirc or \bigcirc to move the cursor to "4 Pr.clear 2".	1 INW.reset 2 Pr.all clear 3 Pr.clear 1 4*Pr.clear 2		
5	Press WRITE to clear parameter 2.	Pr.clear 2 END		

(6) Parameter clear 3

Operates with the parameter 00-02=6 (P.999 = 3)

1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press or or or to move the cursor to "5 RESET OPER".	3 ALARM HIS 4 PR.COPY 5 PLC FUNC 6*RESET OPER
3	Press READ to enter into reset operation list.	0*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1
4	Press or or or to move the cursor to "5 Pr.clear 3".	2 Pr.all clear 3 Pr.clear 1 4 Pr.clear 2 5*Pr.clear 3
5	Press WRITE to clear parameter 3.	Pr.clear 3 END

(7)) PU301C clear	
Set I	PU301C ontology to res	store factory value
1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press or or or to move the cursor to "5 RESET OPER".	3 ALARM HIS 4 PR.COPY 5 PLC FUNC 6+RESET OPER

3	Press READ to enter into reset operation list.	O*Alarm clear 1 INV.reset 2 Pr.all clear 3 Pr.clear 1
4	Press or or or to move the cursor to "6 PU301C clear".	3 Pr.clear 1 4 Pr.clear 2 5 Pr.clear 3 6 PU301C clear
5	Press ^{WRITE} to clear PU301C.	SA3-023-2. 2K

3.2.8 Firmware version

1	Press Func to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press or or or to "7 VERSION".	4 PR.COPY 5 PLC FUNC 6 RESET OPER 7*VERSION
3	Press READ to enter into the firmware version.	VERSION INV.: 0.180 PU301C: 0.170 Language: 0.170

3.2.9 Function setting

(1) Parameter mode

PU301C can display two parameter modes: Group mode and traditional P mode.

1	Press FUNC to enter into the main menu.	0 MONITOR 1 INV.MODE 2 PR.SET 3 ALARM HIS
2	Press or or or to "8 FUNC.SET".	8*FUNC. SET 0 MONITOR 1 INV. MODE 2 PR. SET
3	Press READ to enter into function setting list.	00*Pr. mode 01 Language
4	Press or or or to "00 Pr.mode" .	02 Time enable 03 Time set
5	Press READ to enter into parameter mode list.	00*Group mode ♥ 01 Trad. P mode
6	Press \frown or \checkmark or \checkmark or to move the cursor to the target.	00 Group mode ♥ 01+Trad. P mode
7	Press write to finish setting.	Trad. P mode END

(2) Language selection

PU301C supports simplified Chinese, traditional Chinese, English, Russian, Turkish five text forms of display.

1	Follow the1~3 steps of "Parameter mode".	00 ° Pr. mode 01 Language 02 Time enable 03 Time set
2	Press or or or to "01 LANGUAGE".	00 Pr. mode 01+Language 02 Time enable 03 Time set
3	Press READ to enter into language selection list.	0◆中文简体 1 English 2 中文繁體 3 Türkçe
4	Press or or or for the language.	0 中文简体 1 English 2 中文繁體 3♥Türkçe
5	Press WRITE to finish setting.	0 中文简体 1 English 2 中文繁體 3♥Türkçe ♥

(3) Time enable

Decides the time function enable or not.

1	Follow the1~3 steps of "Parameter mode".	00+Pr. mode 01 Language 02 Time enable 03 Time set
2	Press \frown or \checkmark or \checkmark or to move the cursor to the "02 Time enable".	00 Pr. mode 01 Language 02*Time enable 03 Time set
3	Press ^{READ} to enter into time enable list.	00°Enale time 01 Disable time♥
4	Press or or or to the target.	
5	Press write to finish setting.	00⇒Enale time ♥ 01 Disable time

(5) Backlight setting

Sets the closed time of PU301C backlight in no operation. When the backlight time setting is 0min, the backlight will not go off.



(4) Time setting

Sets the time after time enable.

1	Follow the1~3 steps of "Parameter mode".	00*Pr. mode 01 Language 02 Time enable 03 Time set
2	Press or or or \bigcirc or to move the cursor to the "03 Time set".	01 Language 02 Time enable 03*Time set 04 Backlight
3	Press READ to enter into time set list.	Time set 2018/12/21 12:08:35
4	Press \frown or \checkmark or \checkmark or to move the cursor to the target.	Time set 2018/12/21 13:09:02
5	Press write to finish setting.	01 Language 02 Time enable 03*Time set 04 Backlight

(6) Contrast adjustment

Sets the contrast of PU301C screen.



(7) Panel lock

When lock is enable, the screen will be automatic locked and skip to the monitor mode if there is no operation on PU301C within one minute. It will show the unlocking prompt when operating. If no setting, the password is 0 by default. If the password is 0, the prompt for unlocking method is "Press ESC for 3 seconds". When the password is non-zero, the prompt for unlocking method is: "____".

1	Follow the1~3 steps of "Parameter mode".	00*Pr. mode 01 Language 02 Time enable 03 Time set
2	Press \land or \checkmark or \checkmark or \checkmark or to move the cursor to "06 Panel lock".	04 Backlight 05 Contrast 06*Panel lock 07 Fre.auto.wr
3	Press ^{READ} to enter into panel lock list.	00*Disable lock♥ 01 Enable lock
4	Press or or or to select "01 Enable lock".	00 Disable lock♥ 01+Enable lock
5	Press write to set the password.	Password set
6	Press WRITE to finish setting.	04 Backlight 05 Contrast 06*Panel lock 07 Fre.auto.wr

(8) Frequency auto-write

In the mode of PU panel given target frequency, the target frequency can be changed and takes effect at the same time.

In the mode1, Frequency auto-write function is invalid.

In the mode2, the target frequency will be written into the inverter RAM once in 0.5 seconds, and the target frequency will be written into the inverter ROM once in 10 seconds.

In the mode3, the target frequency will be written into the inverter RAM once in 0.5 seconds, and the target frequency will be written into the inverter ROM once in 30 seconds.

In mode 4, the target frequency is written to the RAM of the primary frequency inverter in 0.5 seconds, and the target frequency is not written to ROM.

1	Follow the1~3 steps of "Parameter mode".	00*Pr. mode 01 Language 02 Time enable 03 Time set
2	Press \bigcirc or \bigcirc or \bigcirc or to move the cursor to "08".	04 Backlight 05 Contrast 06 Panel lock 07*Fre.auto.wr
3	Press READ to enter into frequency auto-write list. Press or or or to move the cursor to the target.	00*Mode1 01 Mode2 02 Mode3 ♥ 03 Mode4
5	Press write to finish setting.	00*Mode1 01 Mode2 02 Mode3 03 Mode4