# PLC

4 PLC

1	Ρl	_C

- 1) PLC
- 2.
- 1)
- 2)
- 3) PLC
- 3. CPU
- 1) CPU
- 2)



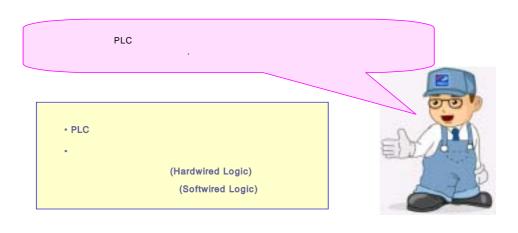
<3	. PLC > PLC (CPU), ,		
PLO	C PLC	가 .	,
	가		
PLC	가 가	<u> </u>	
		< PLC > • [GMWIN], [KGL-WIN]	
	•[ ] [EXCELL]		
		PLC , PLC	
가	가 : PLC : PLC PLC PLC PLC	가 ? LC	
	, 가	가 PLC	
,	가 가 . , PLC	· · · · · · · · · · · · · · · · · · ·	
	(Source Program) : ( ) (obj	bject program: 가	)
PLC Assen	GMWIN Assembly Lnbly Language :	Language .	
1~6	가 ,	가 . (CPU)	



PLC
PLC
CPU

(Hard-wired Logic)
(Soft-wired Logic)

## **PLC**



PLC



PLC
relay
GMWIN, KGLWIN
.
PLC
.
PLC
.

PLC (PROGRAMMING TOOL)

PLC 7 PLC

GMWIN (LG )

KGLWIN (LG )

WINFPST ( )

WINGPC ( )

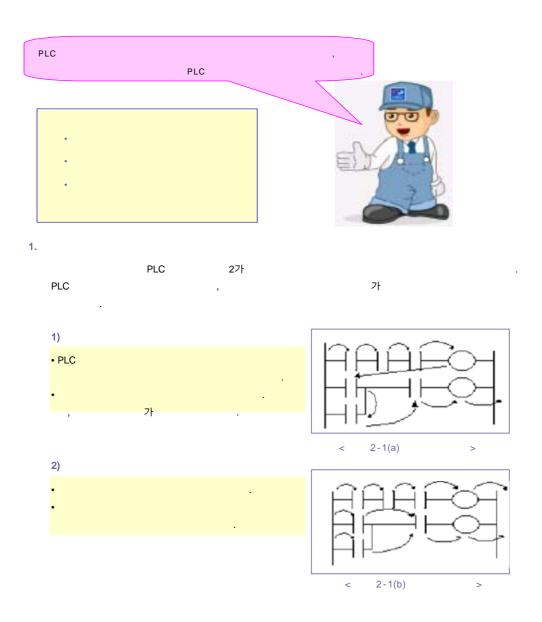
SIMATIC MANAGER (SIEMENS)

RSLogic500(AB)

FXGP\_WINE (Mitsubishi)

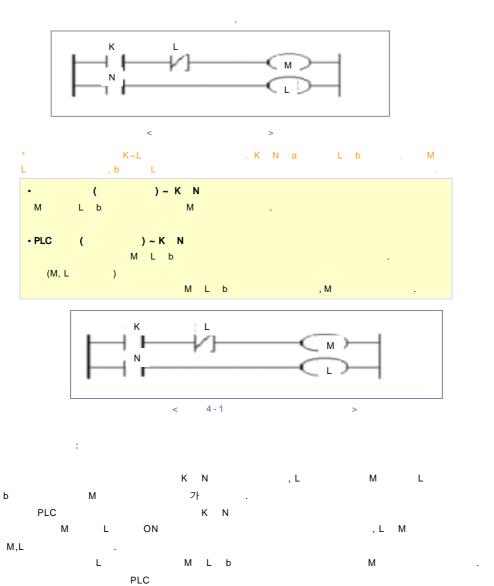
• : 7t , , PLC







2.



가



, ON

```
1)
  PLC
                         ON/OFF
2)
   PLC
```

가

• a (arbeit contact a ) DFF) 가 가 , OFF , make (OFF) 가 (ON) , ON • b ) 가 (break contact b , (OFF) (ON) 가 , OFF

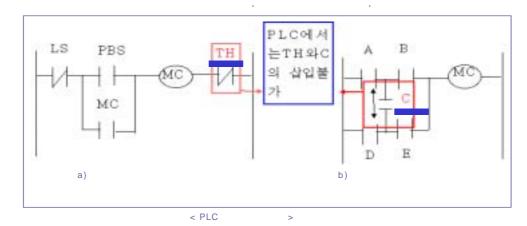
• c (change-over contact c ) - a

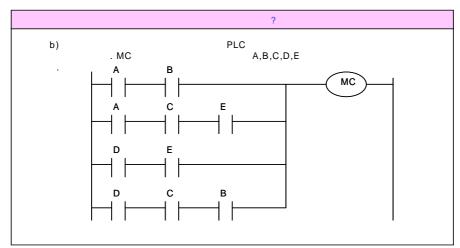


3)

가

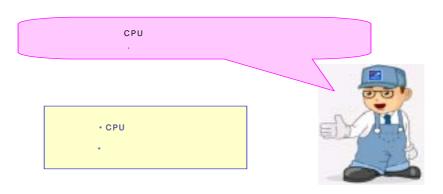
・PLC ・ PLC ・ 가





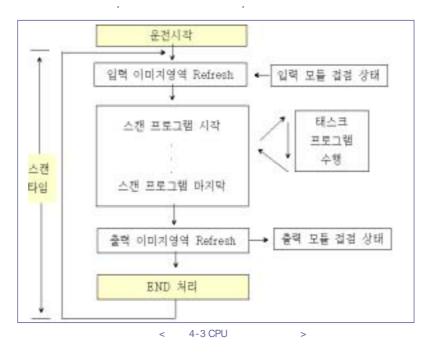


### **CPU**



1. CPU

, CPU



CPU
PLC (Run) (Refresh)

. CPU

CPU (Refresh) . CPU



2.

1) (Scan Time)

```
• : PLC7ł

1 ,1 (Scan Time) PLC (Input Refresh)

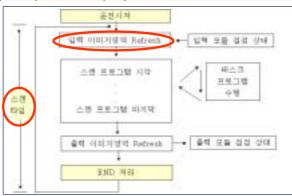
END

• PLC

• (Refresh) :
```

2) (Input Refresh)

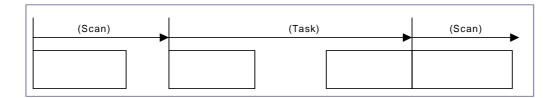
```
    : (Input Refresh)
    - (Refresh)
    ( :real time)
```



2.

3)

가 가







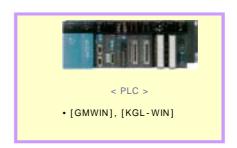
• :	기가 RUN ) , ( :real time)
• : (Task) • :	, (Interrupt) . , ,
4) (Self Diagnosis) ・ : PLC CPU가 ・ - 가 - 가	
5) (Output Refres	sh) 
, PLC 6) END	
• : (	Clear(Input Refresh)





```
PLC 7 ?
PLC PLC PLC ?
```





```
(Hardwired Logic)
- :
- :
- :
- :
(Softwired Logic) :
- : , PLC 가
- :
- : , 7+ 7+ ( 7+
```

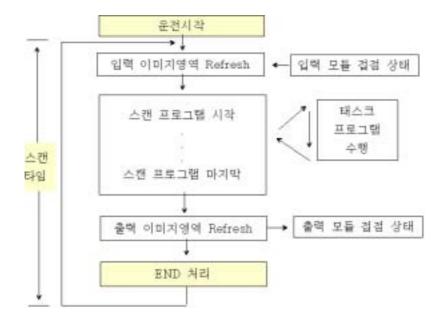
1)
• PLC
• 71
2)
• •

3. CPU

• PLC (Refresh)

• CPU (Refresh)





가

1. \_\_\_\_ ? Relay

PLC 가

: PLC 가 .

: Relay

2. (Softwired Logic) ? 가가 가 가 . 가 .

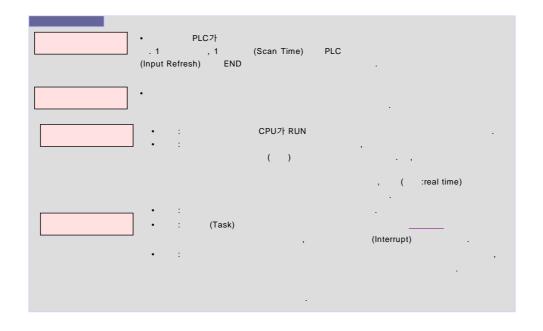
Relay .

: Relay .



PLC 가 (Softwired Logic) 1. : , PLC 가 가 가 가 3:PLC PLC 1) • PLC 가 2) Relay 4. ? PLC가 ? CPU가 RUN (Interrupt)





4.

DMA: (Input Refresh)

•

= = = = = 가



= 가 .

= 가 .

= .