



PLC

3 PLC

- 1. PLC
 - 1) PLC
 - 2) PLC
 - 3)
 - 4)
 - 5)
- 2. PLC
 - 1) PLC
 - 2) PLC
- 3.
 - 1)
 - 2)

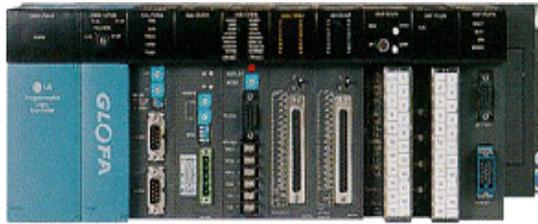
<2 . PLC > PLC
 PLC ?

PLC(Programmable Logic Controller) :

Relay Timer Counter LSI, Transistor
 가

가 가
 PLC

PLC



PLC , PLC
 가 , PLC

PLC

PLC PLC PLC
 PLC PLC

PLC
 PLC

PLC 4가
 PLC PLC
 PLC

PLC
 PLC
 PLC

!



PLC

PLC ()

1. PLC

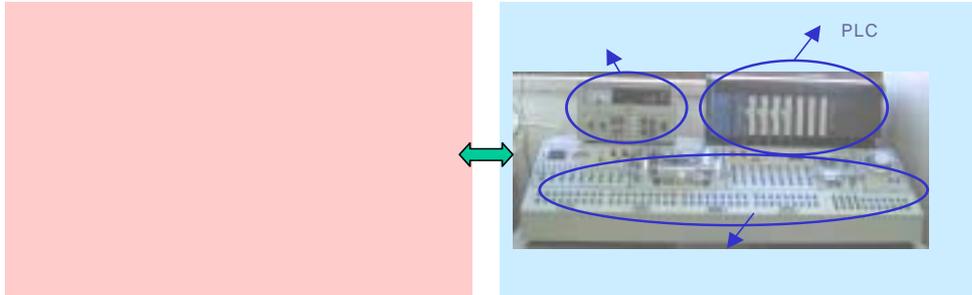


가

PLC

PLC

?



< >

<PLC Trainer>

2. PLC

PLC

4

: CPU (Central Processing Unit)

(Microprocessor) + (Memory)

:

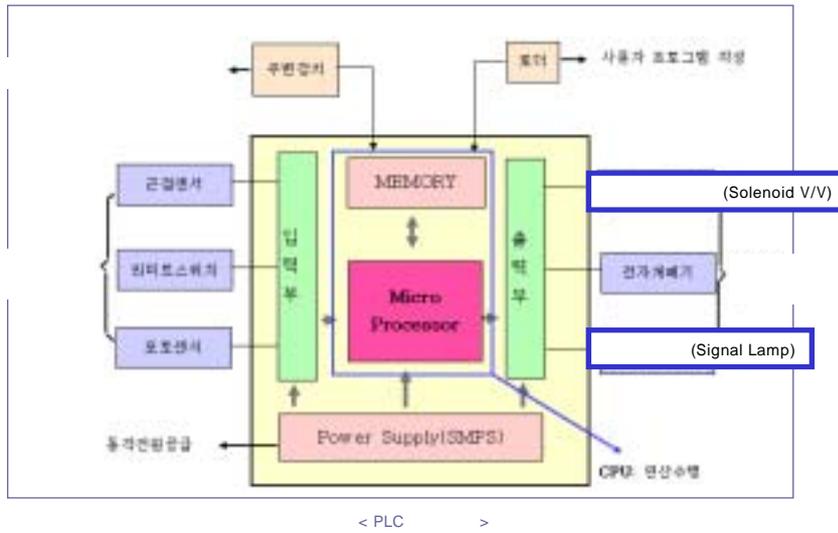
- : CPU

- : CPU

:

PLC TTL (DC+5V),
(, DC 24V, AC 110V, AC 220V)

: 가



PLC , , , 4
 PLC
 CPU
 PLC , PLC TTL
 Level PLC 가
 PLC 가 PLC

3.

1)

(CPU : Central Processing Unit) PLC
 (Microprocessor) (Memory)

2)

-
- (1step/0.12μs)
- CPU 2

3)

System Memory	<ul style="list-style-type: none"> • PLC • PLC • ROM
User Program Memory	<ul style="list-style-type: none"> • 가 • 가 • ROM RAM • 가
Data Memory	<ul style="list-style-type: none"> • , , • 가 RAM

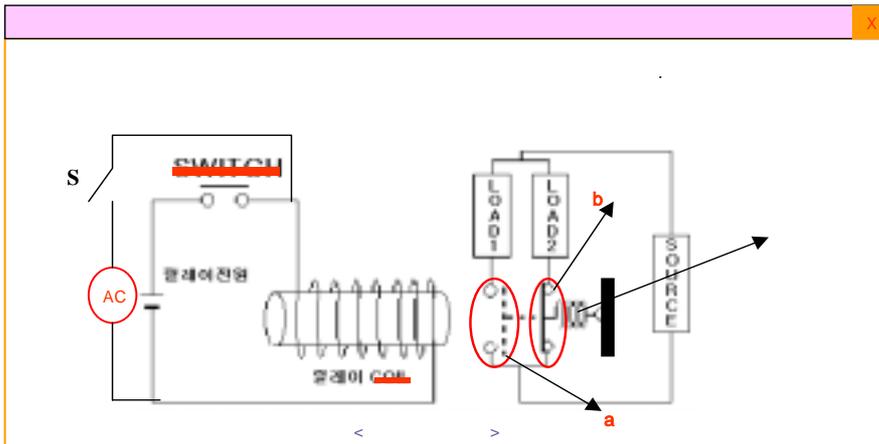
RAM	<ul style="list-style-type: none"> • Random Access Memory • 가
ROM	<ul style="list-style-type: none"> • Read Only Memory • 가
Flash Memory	<ul style="list-style-type: none"> • RAM

4.

1)

- : (,) CPU
- : CPU (, ,)

2)



ON 가
 a ON
 OFF () 가 a OFF

DC
 가
 () 가

SSR
 : SSR(Solid State Relay) TRIAC
 AC
 : () 가

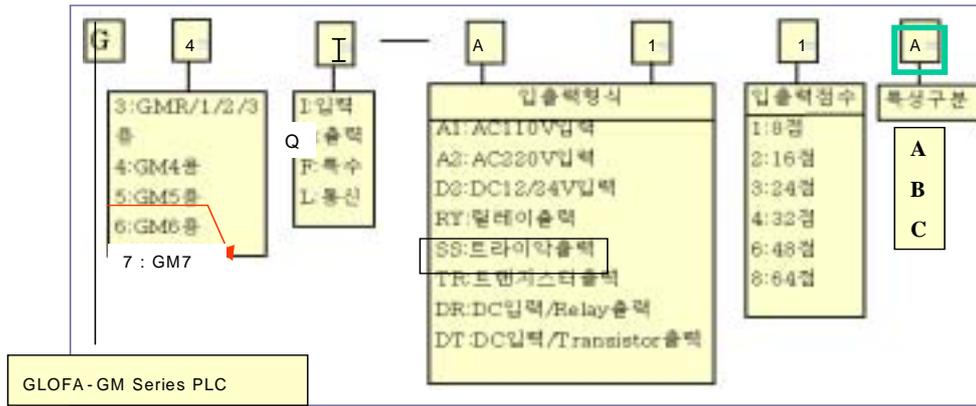
PLC

GLOFA PLC GM1/GM2/GM3/GM4
 가
 PLC

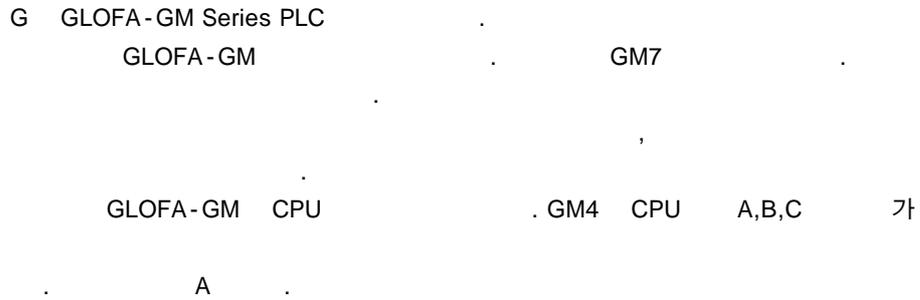
PLC

1. PLC
 PLC 가

PLC



PLC



2. PLC

가



- G6 : GM6
- Q :
- RY :
- 2 : 16
- A : A CPU()

(G6Q-RY2A) GM6 A CPU 가
, 16 가

. PLC



가

1.

- CPU

1) (DC)

(1)

- (+), (-)
- Sink() (-)COM
- Source() (+)COM
- Sink/Source(/)

1.

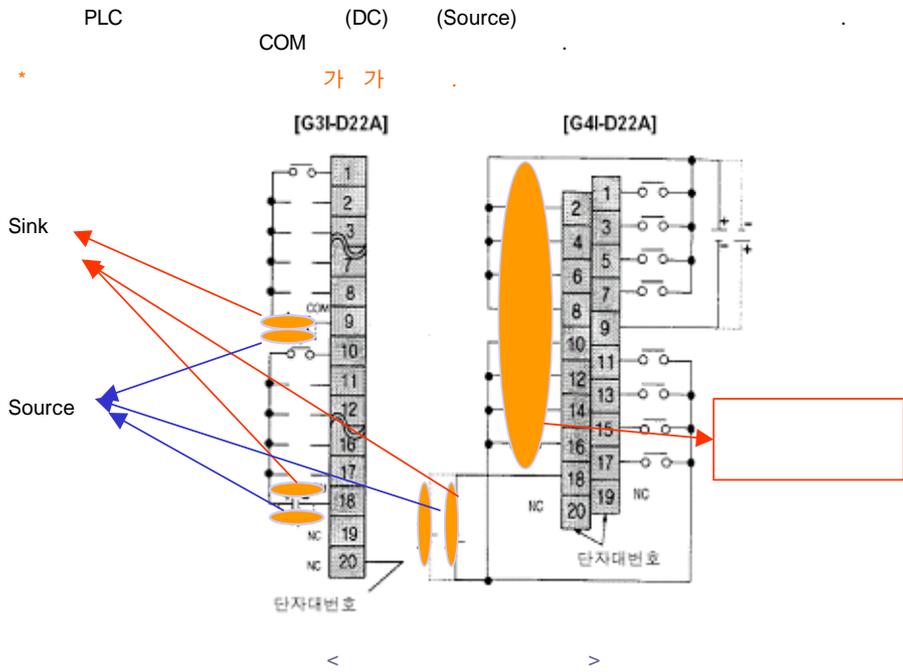
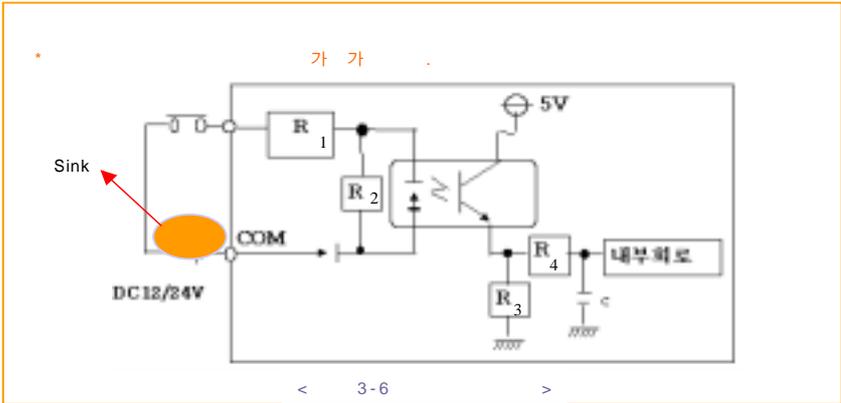
(2)

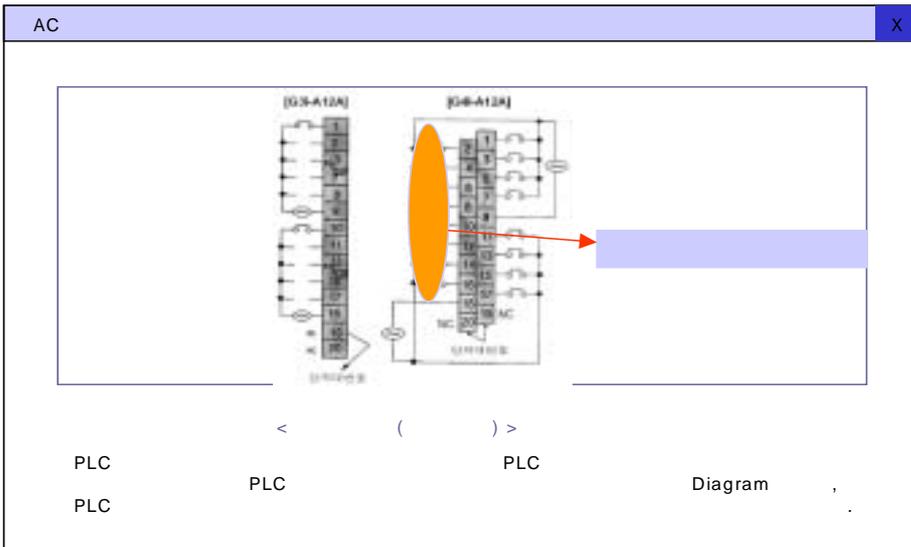


(Sink) : COM (-) 가 가

(Source) : COM (+) 가 가
가

가 : (+)COM (-)COM

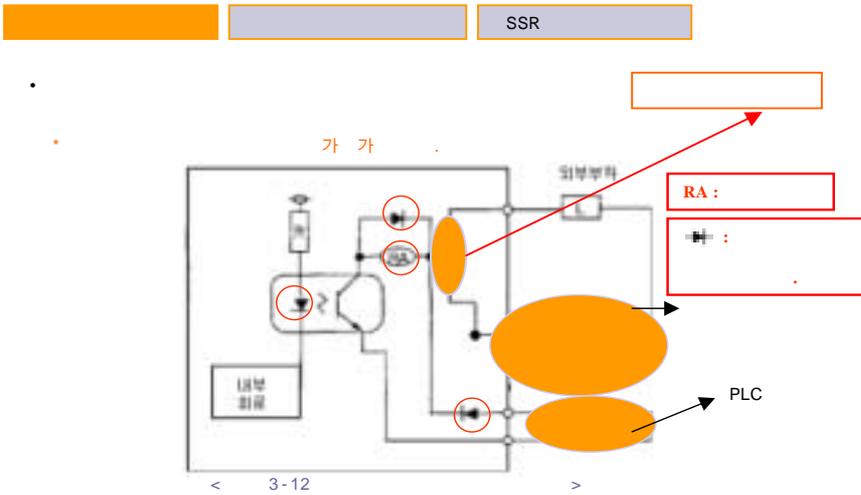


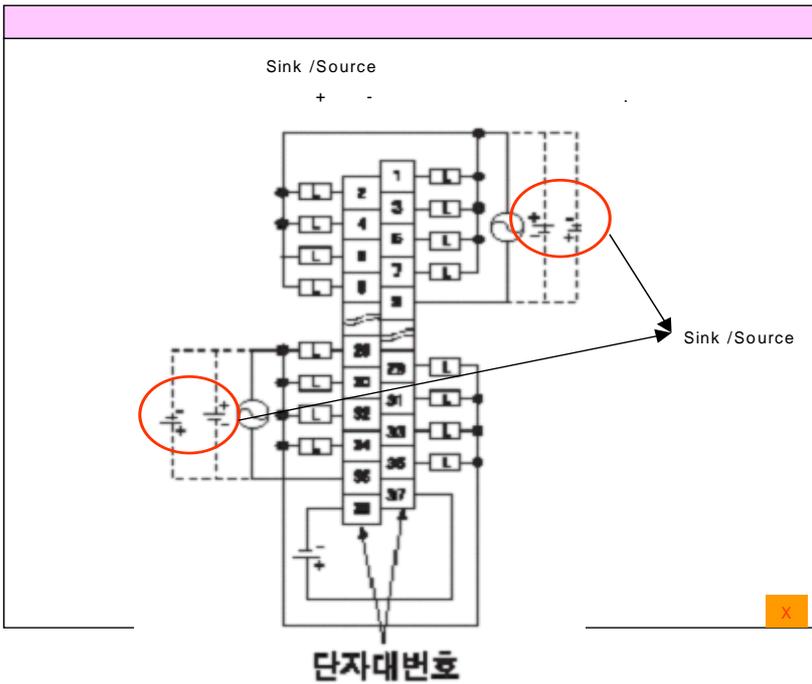


2.

PLC CPU

, SSR





PLC가

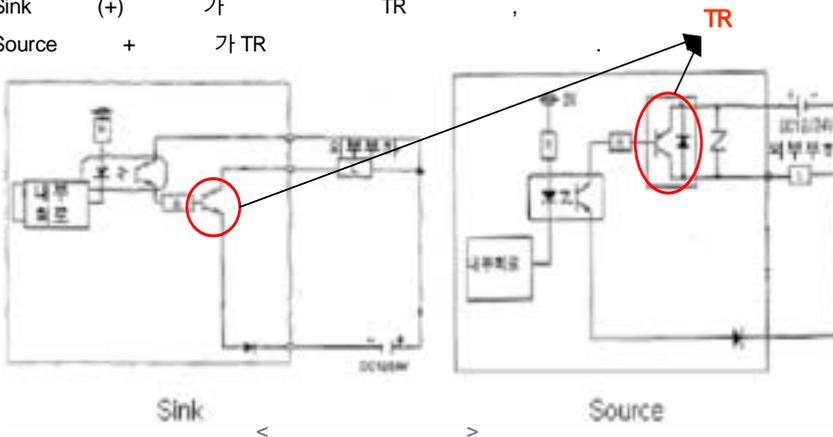
가

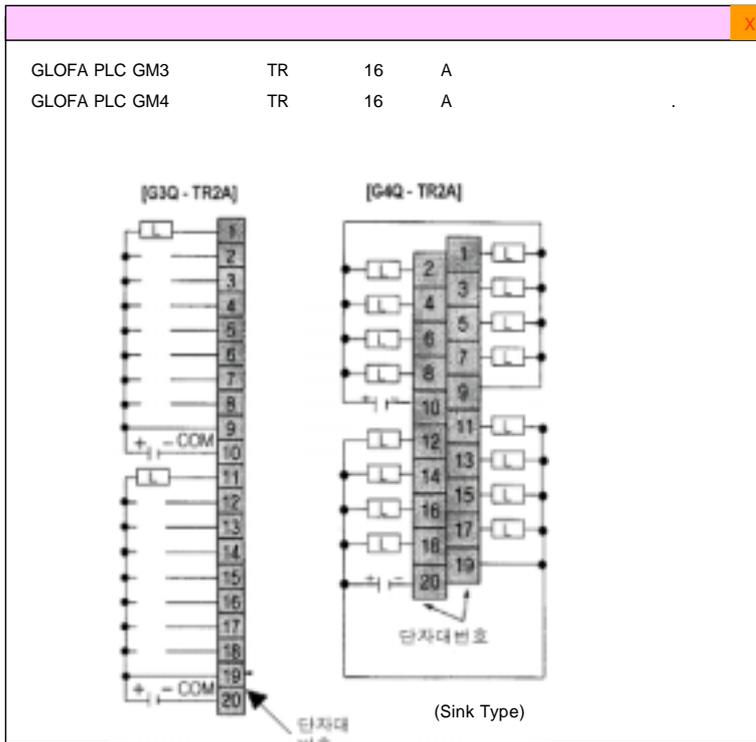
가

PLC



- (+), (-)
- Sink (-)COM, Source (+)COM
- Sink (+) 가 TR, Source (+) 가 TR





SSR

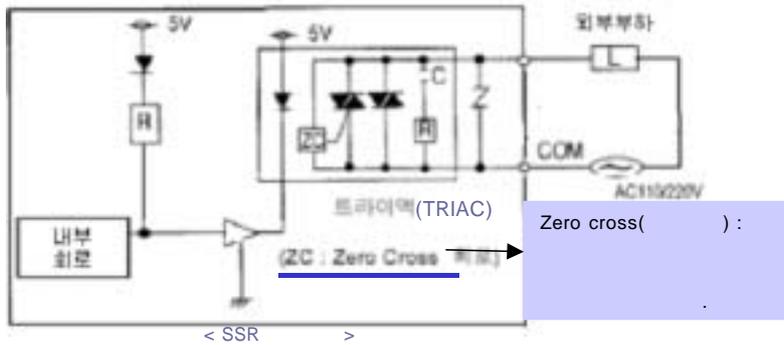
• SSR

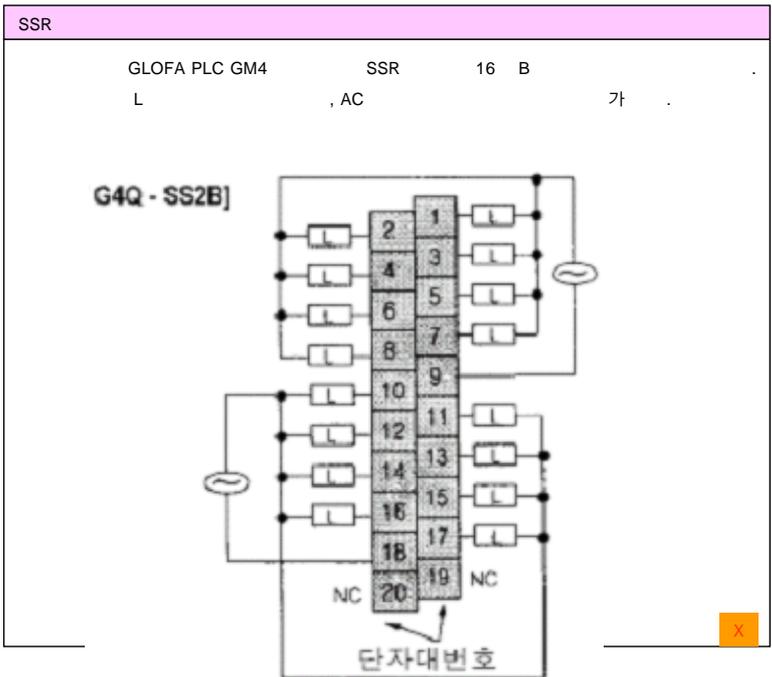
SSR(Solid State Relay)

TRIAC

, AC
가

- : ()





PLC

?

가 PLC

가 PLC CPU,

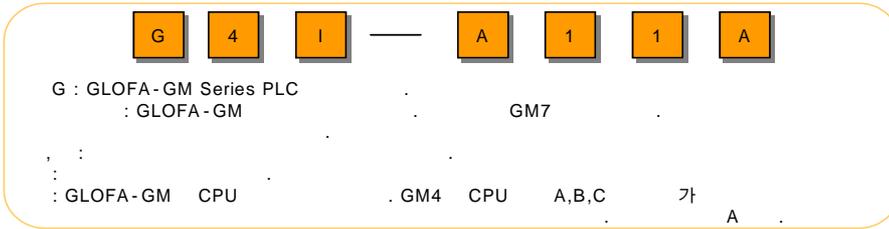


PLC

1. PLC

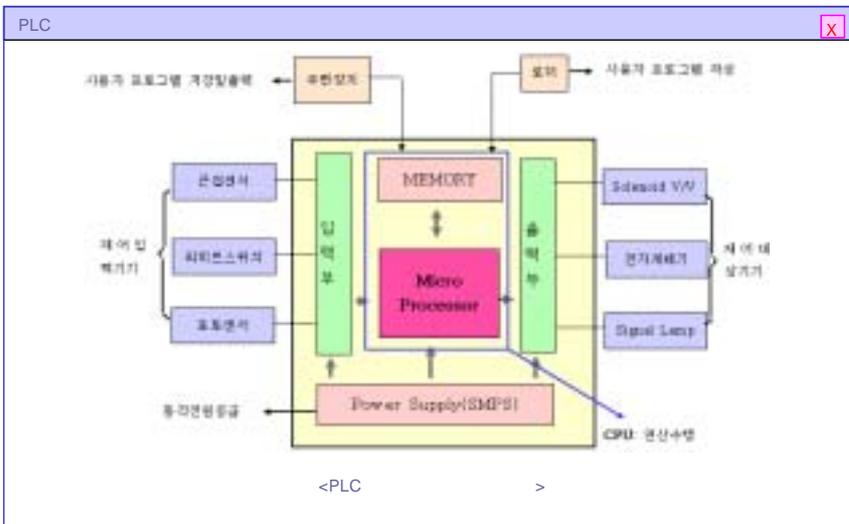
(CPU), (), (Lamp, Buzzer,),
 (SMPS), (PC) PLC

2. PLC



3.

- (DC) : , ,
- (AC)
- , SSR



가

1. PLC 가 _____ ?
 CPU

:

: PLC

(CPU), , 가 .

(CPU : Central Processing Unit) :

(Microprocessor) +

(Memory)

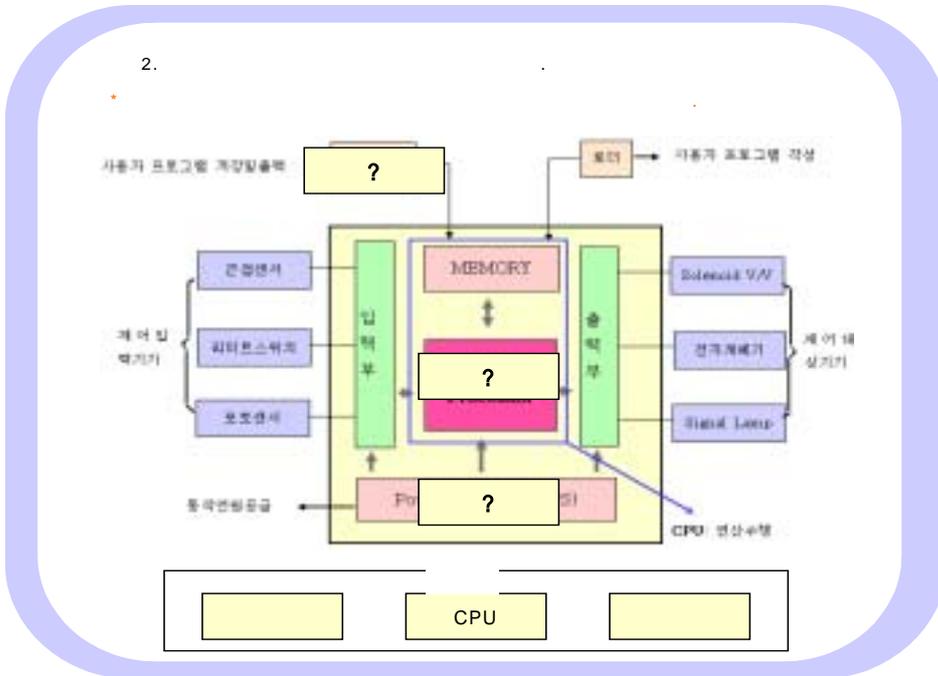
:
- : CPU

- : CPU

:

PLC TTL (DC+5V) ,
(DC 24V, AC 110V, AC 220V)

: 가



3. "G4I-A24" PLC . . . ?

G : GLOFA-GM series PLC . . .

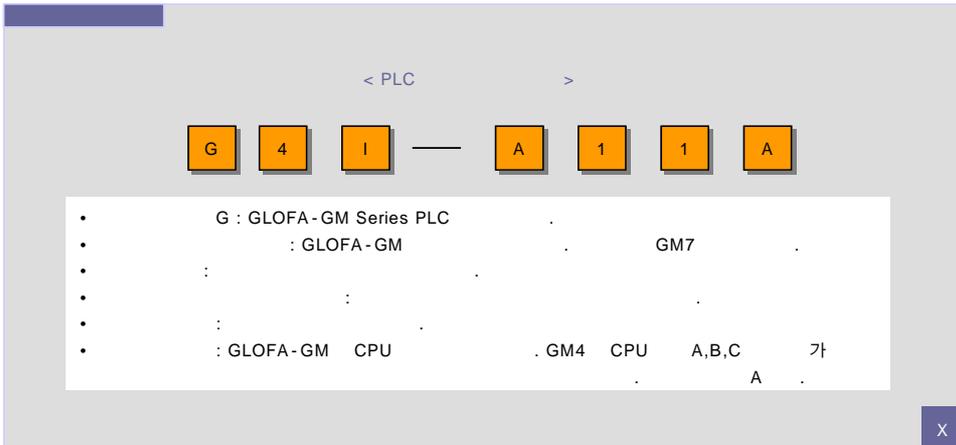
4 : GM4 . . .

I : . . .

A2 : AC220V . . .

: I : . . .

: PLC | . . .



4. DC (+), (-), (-)COM ?

(Sink)
(Source)
/ (Sink/Source)

: (Sink)
: DC
(+), (-)
(Sink) (-)COM
(Source) (+)COM
/ (Sink/Source)

9.11 가 가

가 가

47%

2 가 2 가 1 ()

17 가

가

3,4 가 40%



'가 ()가
 16 1.5 1 20
 11 50
 70 , 2
 가
 20%
 30
 1 50 (1 8) 가 5

: <http://news.empas.com/issue/>