
PLC 동작 상태 확인하기

PEWIN32Pro 프로그램을 이용하여 PLC 동작 상태를 확인이 가능하나 PEWIN32Pro 를 사용하지 않는 상태에서 외부에서 PLC 동작 여부를 확인하는 방법에 대해서 설명 드리겠습니다.

Turbo PMAC Software Manual 의 Turbo PMAC Memory and I/O Map (P486) 참조

[PMAC1/PMAC2]

X:\$0F00		; PLC0 execution address
Y:\$0F00		; PLC0 buffer storage address
Bits		
0 - 15		; PLC base address
22		; PLC disabled
X:\$0F01 - X:\$0F1F		; PLC 1 - 31 execution address
Y:\$0F01 - Y:\$0F1F		; PLC 1 - 31 storage pointer(address)

[TURBO PMAC/UMAC]

X:\$003100		; PLC0 execution address
Bits		
0 - 18		; PLC execution address
23		; PLC execution error
Y:\$003100		; PLC0 buffer storage address
Bits		
0 - 18		; PLC base address
22		; PLC disabled
23		; PLC open
X:\$003101 - X:\$00311F		; PLC 1 - 31 execution address
Y:\$003101 - Y:\$00311F		; PLC 1 - 31 storage pointer(address)
Y:\$003000		; first Motion Program storage address

※위의 해당 Register 를 M 변수로 정의하여 사용하시면 됩니다.>

예)

- PLC 0,1,2 상태 확인하기

해당 X-Register 와 Y-Register 를 Watch window 에 등록하여 모니터링을 하였습니다.

아래의 Y-register 의 Bit 21 부터 Bit 23 까지가 PLC Active status 입니다.

Bit 21 ~ Bit 23	PLC Active status
\$4	No
\$0	Yes

- PLC size 확인하기

X-register 의 Bit 0 ~ Bit 15 까지가 Storage pointer address 입니다.

PLC 0 : \$A000 ~ \$A004 이므로 Size = 4

PLC 1 : \$A004 ~ \$A008 이므로 Size = 4

PLC 2 : \$S008 ~ \$A024 이므로 Size = 28

Type	Number	Start Address	Size	Active
<input type="checkbox"/> PLC	0	\$ A000	4	NO
<input type="checkbox"/> PLC	1	\$ A004	4	NO
<input type="checkbox"/> PLC	2	\$ A008	28	NO
<input type="checkbox"/> Total of 0 Programs Occupying 0 Words In PMAC's Memory				
<input type="checkbox"/> Total of 3 PLC Programs Occupying 36 Words In PMAC's Memory				

<Active No 상태 PEWIN32Pro 의 PLC Status>

```
RHX:$3100 : 00A000
RHY:$3100 : 40A004
RHX:$3101 : 00A004
RHY:$3101 : 40A008
RHX:$3102 : 00A008
RHY:$3102 : 40A024
```

<Active No 상태 Watch Window>

Type	Number	Start Address	Size	Active
<input type="checkbox"/> PLC	0	\$ A000	4	YES
<input type="checkbox"/> PLC	1	\$ A004	4	YES
<input type="checkbox"/> PLC	2	\$ A008	28	YES
<input type="checkbox"/> Total of 0 Programs Occupying 0 Words In PMAC's Memory				
<input type="checkbox"/> Total of 3 PLC Programs Occupying 36 Words In PMAC's Memory				

<Active Yes 상태 PEWIN32Pro 의 PLC Status>

```
RHX:$3100 : 00A000
RHY:$3100 : 00A004
RHX:$3101 : 00A004
RHY:$3101 : 00A008
RHX:$3102 : 00A008
RHY:$3102 : 00A024
```

<Active Yes 상태 Watch Window>