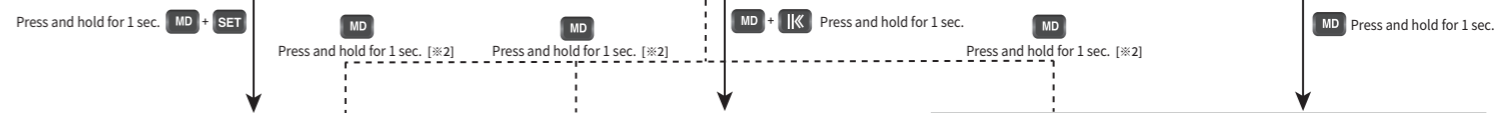
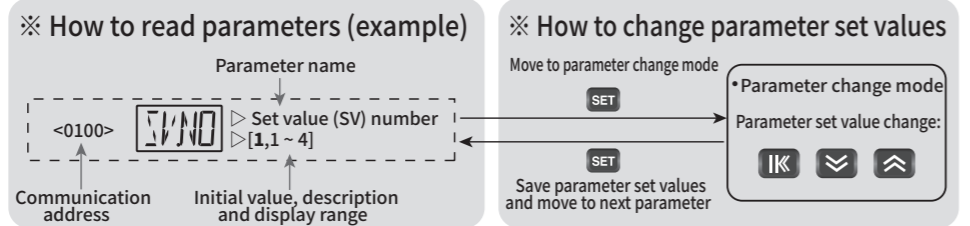




# Parameter configuration



**Full Menu: press and hold MD + SET for 1 sec.**

SV group	CONTROL group	ALARM group	TRANS group	SUB group
<0100> SVND ▷ Set value (SV) number ▷ [1,1 ~ 4]	<0200> ATND ▷ Auto-tuning mode ▷ [STND,STND or LOW]	<0300+(n-1)x4> ARTV ▷ Alarm n type ▷ [※1,0 ~ 13]	<0400> RETT ▷ Retransmission output type ▷ [PV,PV/SV/MV]	<0500> SUB1 ▷ Sub 1 output type ▷ [ALM1,※1]
<0101> SV-H ▷ Set value (SV) high limit ▷ [1370, refer to input range]	<0207> AT ▷ Auto-tuning (AT) ▷ [OFF,OFF or ON]	<0301+(n-1)x4> AL-n ▷ Alarm n value ▷ [※1]	<0401> T-SH ▷ Retransmission output high limit ▷ [1370,※1]	<0501> SUB2 ▷ Sub 2 output type ▷ [ALM2,※1]
<0102> SV-L ▷ Set value (SV) low limit ▷ [-200, refer to input range]	<0208> ARW ▷ Anti-reset wind-up (ARW) ▷ [Auto, Auto or 50.0 ~ 200.0]	<0302+(n-1)x4> ARL-n ▷ Alarm n deadband ▷ [1,※1]	<0402> T-SL ▷ Retransmission output low limit ▷ [-200,※1]	<0502> SUB3 ▷ Sub 3 output type ▷ [ALM3,※1]
<0103> SV-1 ▷ Set value 1 (SV 1) ▷ [-200, refer to input range]	<0209> ALPA ▷ Alpha ▷ [50, 0 ~ 100]	<0303+(n-1)x4> ARLS ▷ Alarm n output hold status ▷ [RST,RST or SET]	<0403> T-AH ▷ Retransm. output high adjust. value ▷ [0,※1]	<0503> SUB4 ▷ Sub 4 output type ▷ [ALM4,※1]
<0104> SV-2 ▷ Set value 2 (SV 2) ▷ [-200, refer to input range]	<a=0210> 1.PID group	<0316> LBTM ▷ Loop break alarm time ▷ [480,0 ~ 7200]	<0404> T-AL ▷ Retransm. output low adjust. value ▷ [0,※1]	<0504+(n-1)x4> ARND ▷ Alarm n ON delay time ▷ [0,0 ~ 999]
<0105> SV-3 ▷ Set value 3 (SV 3) ▷ [-200, refer to input range]	<a=0219> 2.PID group	<0317> LBSV ▷ Loop break alarm set value ▷ [2,EUS 0.0 ~ 5.0%]	<0405> REME ▷ Enable remote input ▷ [OFF,OFF or ON]	<0505+(n-1)x4> ARFD ▷ Alarm n OFF delay time ▷ [0,0 ~ 999]
<0106> SV-4 ▷ Set value 4 (SV 4) ▷ [-200, refer to input range]	<a=0228> 3.PID group	<0318> LBDL ▷ Loop break alarm deadband ▷ [2,EUS 0.0 ~ 5.0%]	<0406> REMH ▷ Remote input high limit ▷ [5.000,1.000 ~ 5.000]	<0506+(n-1)x4> ARNC ▷ Alarm n contact type ▷ [N.O,N.O or N.C]
<a=0> nP ▷ n. proportional band (heating) ▷ [EUS 5.0%,※1]	<a=0237> 4.PID group	<0319> LBSL ▷ Loop break alarm output hold status ▷ [RST,RST or SET]	<0407> REML ▷ Remote input low limit ▷ [1.000,1.000 ~ 5.000]	<0507+(n-1)x4> ARHT ▷ Alarm n output hold ▷ [OFF,OFF or ON]
<a=1> nI ▷ n. integral time (heating) ▷ [240,OFF or 1 ~ 6000]	<0246> RMP ▷ Ramp-up ▷ [OFF, refer to input range]	<0320> HB-1 ▷ Heater break alarm 1 set value ▷ [OFF,1.0 ~ 50.0]	<0408> R-SH ▷ Remote input high scale value ▷ [1370,※1]	<0520> LOND ▷ Loop break alarm ON delay time ▷ [0,0 ~ 999]
<a=2> nD ▷ n. derivative time (heating) ▷ [60,OFF or 1 ~ 6000]	<0247> UPTM ▷ Ramp-up time ▷ [01.00,00.01 ~ 99.59]	<0321> HD-1 ▷ Heater break alarm 1 deadband ▷ [0.5,0.1 ~ 50.0]	<0409> R-SL ▷ Remote input low scale value ▷ [-200,※1]	<0521> LOFD ▷ Loop break alarm OFF delay time ▷ [0,0 ~ 999]
<a=3> nMP ▷ n. manual reset ▷ [50.0,-5.0 ~ 105.0]	<0248> RMDW ▷ Ramp-down ▷ [OFF, refer to input range]	<0015> CT1M ▷ Current detection 1 monitoring ▷ [0.0,0.0 ~ 55.0]	<0410> R-AH ▷ Remote input high adjust. value ▷ [0,※1]	<0522> LDEC ▷ Loop break alarm contact type ▷ [OFF,OFF or ON]
<a=4> nPC ▷ n. proportional band (cooling) ▷ [EUS 5.0%,※1]	<0249> DDTM ▷ Ramp-down time ▷ [01.00,00.01 ~ 99.59]	<0322> HB-2 ▷ Heater break alarm 2 set value ▷ [OFF,1.0 ~ 50.0]	<0411> R-AL ▷ Remote input low adjust. value ▷ [0,※1]	<0523> LHLT ▷ Loop break alarm output hold ▷ [OFF,OFF or ON]
<a=5> nIC ▷ n. integral time (cooling) ▷ [240,OFF or 1 ~ 6000]	<0250> MVBL ▷ MV Bumpless ▷ [ON,OFF or ON]	<0323> HD-2 ▷ Heater break alarm 2 deadband ▷ [0.5,0.1 ~ 50.0]		<0524> HDBE ▷ Enable heater break alarm 2 ▷ [OFF,OFF or ON]
<a=6> nDC ▷ n. derivative time (cooling) ▷ [60,OFF or 1 ~ 6000]		<0016> CT2M ▷ Current detection 2 monitoring ▷ [0.0,0.0 ~ 55.0]		<0525> HOND ▷ Heater break alarm ON delay time ▷ [0,0 ~ 999]
<a=8> nDB ▷ n. heating/cooling deadband ▷ [3.0,-100.0 ~ 50.0]		<0324> HBSL ▷ Heater break alarm output hold status ▷ [RST,RST or SET]		<0526> HOFD ▷ Heater break alarm OFF delay time ▷ [0,0 ~ 999]

**Basic Menu: press and hold MD + IKK for 1 sec.**

<0900> INP ▷ Input type ▷ [K0,※1]	<0909> DIAS ▷ Input bias ▷ [0,※1]
<0800> CNT1 ▷ OUT1 control mode ▷ [PID,ONOFF or PID]	<0801> CNT2 ▷ OUT2 control mode ▷ [PID,NONE/ONOFF/PID]
<0802> OACT ▷ Control direction ▷ [REV,REV or DIR]	<0803> CP ▷ Control cycle (OUT1) ▷ [※1]
<0804> CPC ▷ Control cycle (OUT2) ▷ [※1]	<0300> AL1V ▷ Alarm 1 type ▷ [3,0 ~ 13]
<0301> AL-1 ▷ Alarm 1 value ▷ [1570,※1]	<0302> ALDB ▷ Alarm 1 deadband ▷ [1,※1]
<0303> AL-2 ▷ Alarm 2 value ▷ [1570,※1]	<0304> AL2V ▷ Alarm 2 type ▷ [10,0 ~ 13]
<0305> AL-3 ▷ Alarm 3 value ▷ [1370,※1]	<0310> AL3D ▷ Alarm 3 deadband ▷ [1,※1]
<0311> AL-4 ▷ Alarm 4 value ▷ [-200,※1]	<0312> AL4V ▷ Alarm 4 type ▷ [2,0 ~ 13]
<0313> ALDB2 ▷ Alarm 4 deadband ▷ [1,※1]	<0314> AL4D ▷ Alarm 4 deadband ▷ [1,※1]
<0600> PCK ▷ Communication protocol ▷ [PCK,※1]	<0601> BPS ▷ Baud rate ▷ [9.6K,※1]
<0602> PPS ▷ Parity bit ▷ [NONE,※1]	<0603> STPB ▷ Stop bit ▷ [1,1 or 2]
<0604> ALEN ▷ Data length ▷ [8,7 or 8]	<0605> ADLEN ▷ Address ▷ [1,1 ~ 99]
<0606> RPTM ▷ Response delay time ▷ [0,0 ~ 10]	<0701> PDM ▷ Operation mode after power on ▷ [RUN,STOP or RUN]
	<0702> PINT ▷ Parameter initialization ▷ [OFF,OFF or ON]
	<0703> LOCK ▷ Parameter set value lock ▷ [0,0 ~ 2]
	<0704> E2PL ▷ EEPROM lock during operation ▷ [OFF,OFF or ON]
	<0041> SYSD ▷ System data ▷ [0000-FFFF]
	<0042> OPTD ▷ Option data ▷ [1,※1]
	<0045> FVER ▷ Firmware version ▷ [V0.00-Vx.xx]

**Simple menu: press and hold MD for 1 sec.**

<0201> AT ▷ Auto-tuning ▷ [OFF,OFF or ON]
<0301> AL-1 ▷ Alarm 1 setting ▷ [1570,※1]
<0305> AL-2 ▷ Alarm 2 setting ▷ [1570,※1]
<0309> AL-3 ▷ Alarm 3 setting ▷ [1370,※1]
<0313> AL-4 ▷ Alarm 4 setting ▷ [-200,※1]
<a=0210> 1.PID group
<a=0219> 2.PID group
<a=0228> 3.PID group
<a=0237> 4.PID group
<0805> HYS ▷ ON/OFF control hysteresis (OUT1) ▷ [1,※1]
<0806> HYS2 ▷ ON/OFF control hysteresis (OUT2) ▷ [1,※1]
<a=0> nP ▷ n. proportional band (heating) ▷ [EUS 5.0%,※1]
<a=1> nI ▷ n. integral time (heating) ▷ [240,OFF or 1 ~ 6000]
<a=2> nD ▷ n. derivative time (heating) ▷ [60,OFF or 1 ~ 6000]
<a=3> nMP ▷ n. manual reset ▷ [50.0,-5.0 ~ 105.0]
<a=4> nPC ▷ n. proportional band (cooling) ▷ [EUS 5.0%,※1]
<a=5> nIC ▷ n. integral time (cooling) ▷ [240,OFF or 1 ~ 6000]
<a=6> nDC ▷ n. derivative time (cooling) ▷ [60,OFF or 1 ~ 6000]
<a=8> nDB ▷ n. heating/cooling deadband ▷ [3.0,-100.0 ~ 50.0]

**※ 1 : Refer to the User's Manual**

**※ 2 : Key to move to operation mode screen**  
Press and hold **MD** in the parameter setting screen for 1 sec. to move to operation mode screen

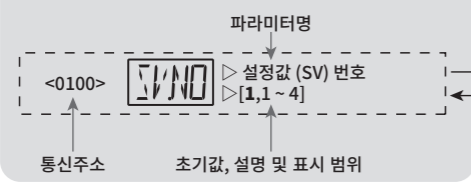
**※ 3 : Move to group name display**  
Press **MD** during parameter display to move to group name (but during parameter display in n.PID, it moves to n.PID).

**※ The parameter display differs depending on suffix code options and parameter settings.**

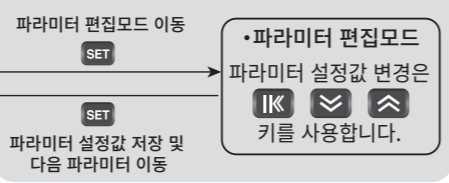


# 파라미터 구성

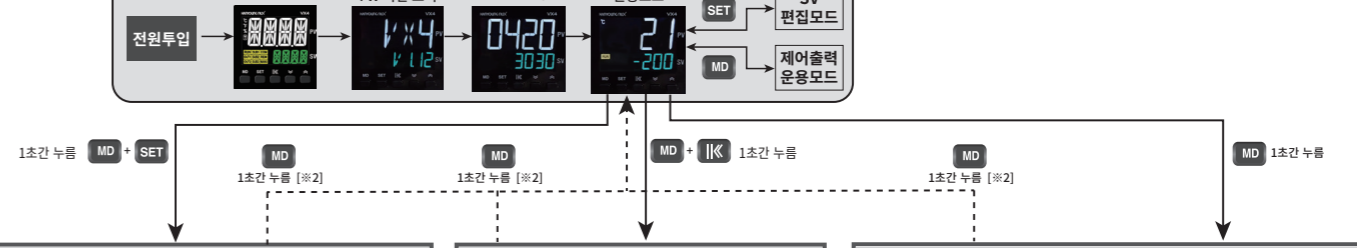
## ※ 파라미터 읽는 방법 (예)



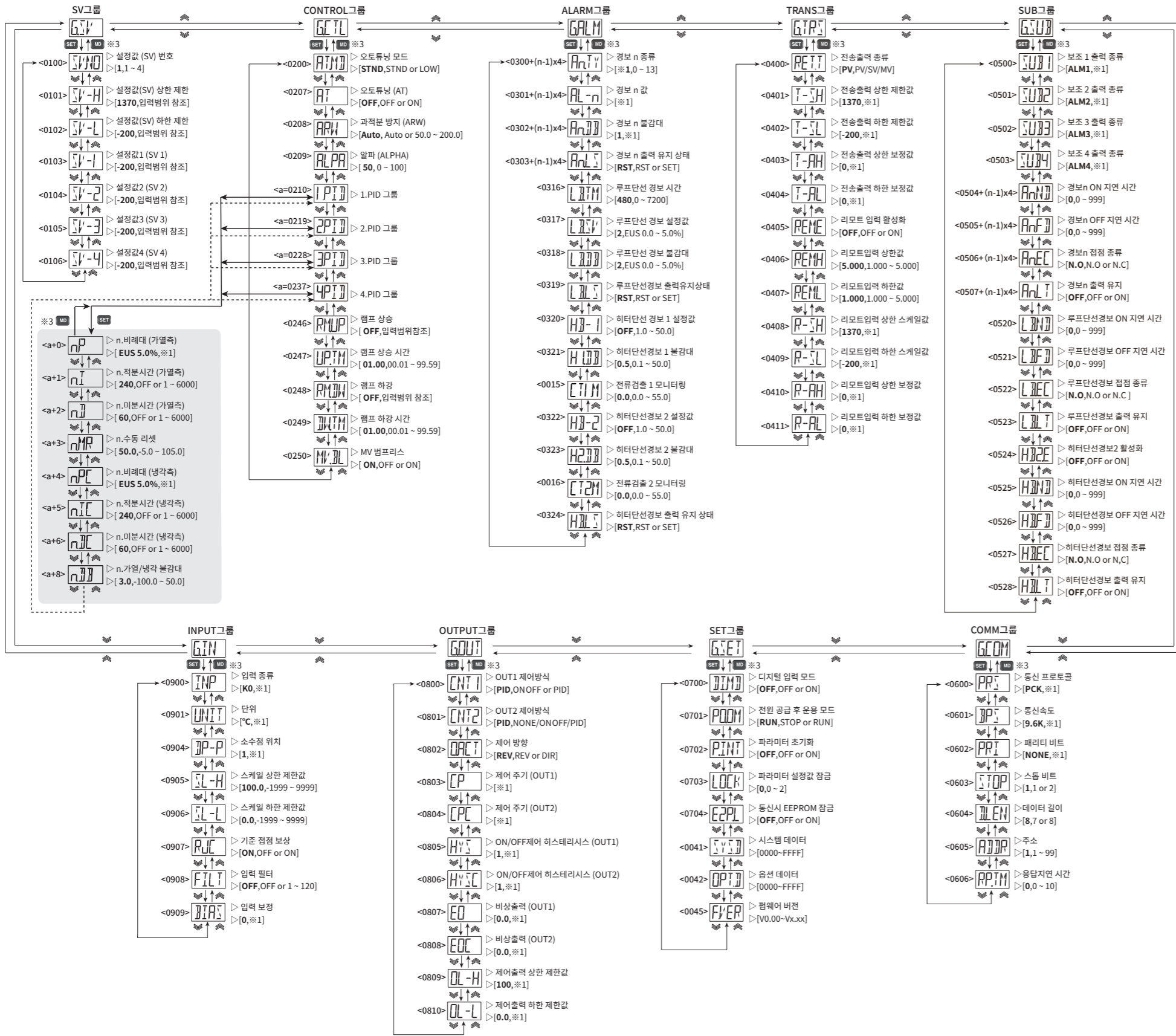
## ※ 파라미터 설정값 편집 방법



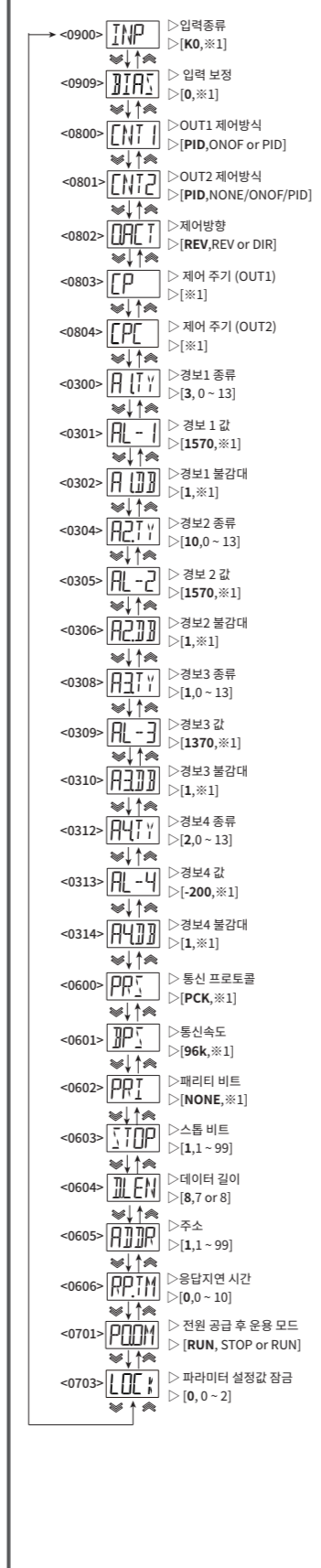
## ※ 운용모드



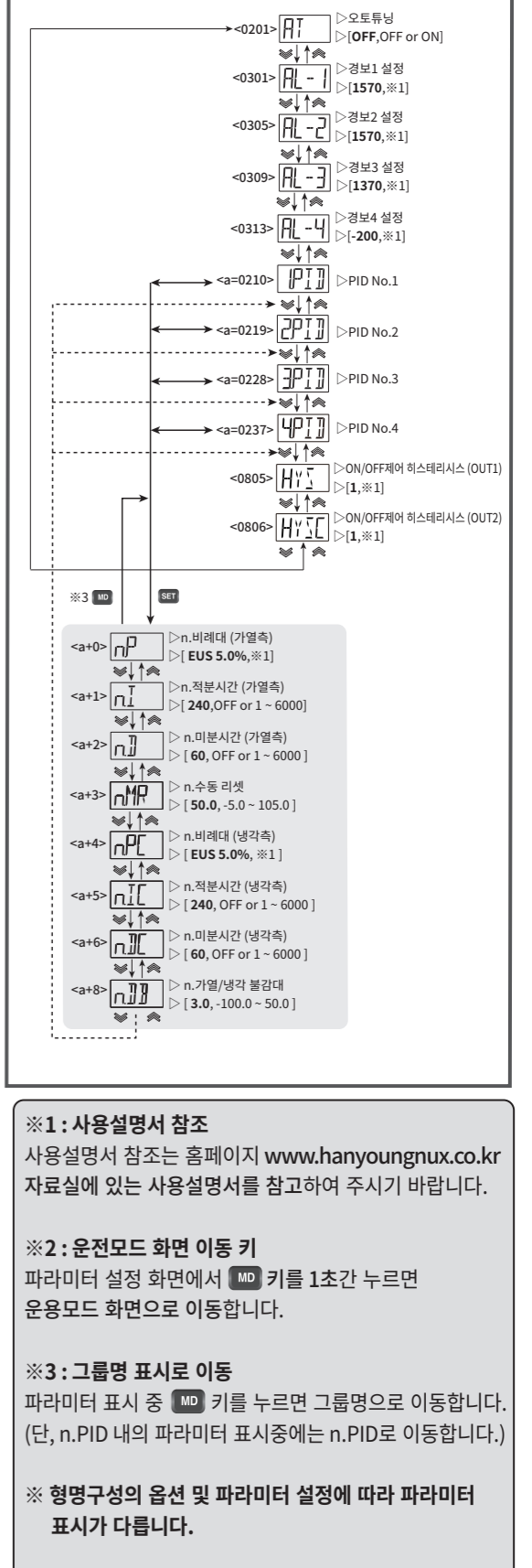
## 전체메뉴 MD + SET 1초간 누름



## 기본메뉴 MD + IK 1초간 누름



## 간편메뉴 MD 1초간 누름



※1 : 사용설명서 참조  
 사용설명서 참조는 홈페이지 [www.hanyoungnux.co.kr](http://www.hanyoungnux.co.kr) 자료실에 있는 사용설명서를 참고하여 주시기 바랍니다.

※2 : 운전모드 화면 이동 키  
 파라미터 설정 화면에서 MD 키를 1초간 누르면 운용모드 화면으로 이동합니다.

※3 : 그룹명 표시로 이동  
 파라미터 표시 중 MD 키를 누르면 그룹명으로 이동합니다. (단, n.PID 내의 파라미터 표시중에는 n.PID로 이동합니다.)

※ 형명구성의 옵션 및 파라미터 설정에 따라 파라미터 표시가 다릅니다.