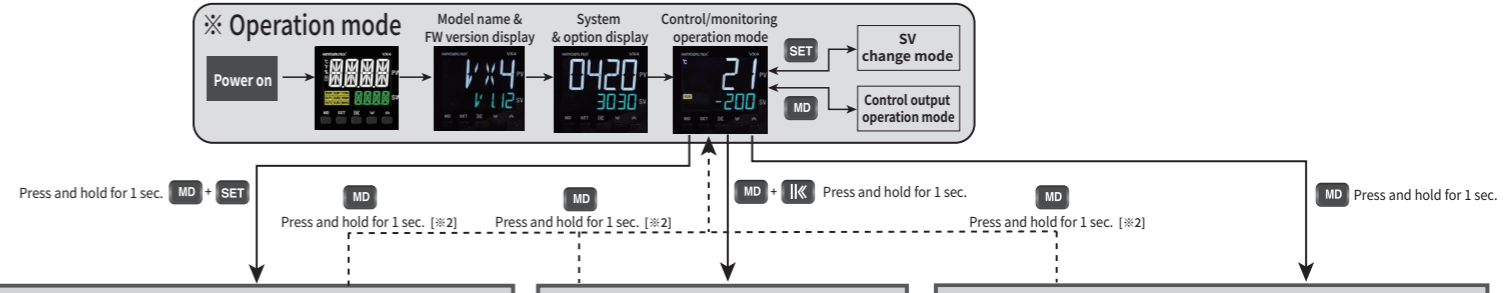
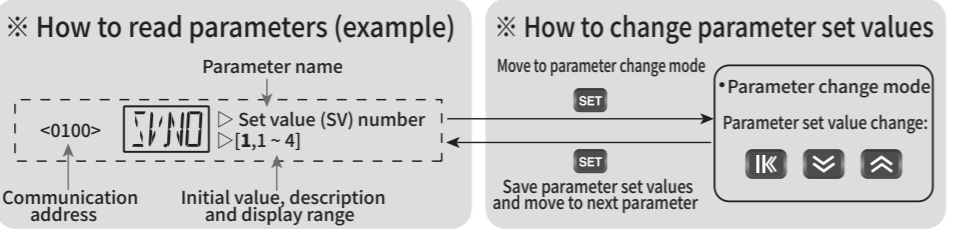




# Parameter configuration



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

| SV group  | CONTROL group   | ALARM group  | TRANS group  | SUB group   |
|---|---|--|--|---|
| <0100> <b>SVNO</b> ▷ Set value (SV) number [1,1 ~ 4]                        | <0200> <b>ACTM</b> ▷ Auto-tuning mode [STND,STND or LOW]                  | <0300+(n-1)x4> <b>ALnV</b> ▷ Alarm n type [1,0 ~ 13]                       | <0400> <b>RETT</b> ▷ Retransmission output type [PV,PV/SV/MV]      | <0500> <b>SUB1</b> ▷ Sub 1 output type [ALM1,※1]                      |
| <0101> <b>SV-H</b> ▷ Set value (SV) high limit [1370, refer to input range] | <0207> <b>AT</b> ▷ Auto-tuning(AT) [OFF,OFF or ON]                        | <0301+(n-1)x4> <b>AL-n</b> ▷ Alarm n value [※1]                            | <0401> <b>T-SH</b> ▷ Retransmission output high limit [1370,※1]    | <0501> <b>SUB2</b> ▷ Sub 2 output type [ALM2,※1]                      |
| <0102> <b>SV-L</b> ▷ Set value (SV) low limit [-200, refer to input range]  | <0208> <b>ARW</b> ▷ Anti-reset wind-up (ARW) [Auto, Auto or 50.0 ~ 200.0] | <0302+(n-1)x4> <b>AR-n</b> ▷ Alarm n deadband [1,※1]                       | <0402> <b>T-SL</b> ▷ Retransmission output low limit [-200,※1]     | <0502> <b>SUB3</b> ▷ Sub 3 output type [ALM3,※1]                      |
| <0103> <b>SV-1</b> ▷ Set value 1 (SV1) [-200, refer to input range]         | <0209> <b>ALPA</b> ▷ Alpha [50, 0 ~ 100]                                  | <0303+(n-1)x4> <b>AR-nS</b> ▷ Alarm n output hold status [RST,RST or SET]  | <0403> <b>T-AH</b> ▷ Retransm. output high adjust. value [0,※1]    | <0503> <b>SUB4</b> ▷ Sub 4 output type [ALM4,※1]                      |
| <0104> <b>SV-2</b> ▷ Set value 2 (SV2) [-200, refer to input range]         | <a=0210> <b>1PID</b> ▷ 1.PID group  | <0316> <b>LBTM</b> ▷ Loop break alarm time [480.0 ~ 7200]                  | <0404> <b>T-AL</b> ▷ Retransm. output low adjust. value [0,※1]     | <0504+(n-1)x4> <b>ARnD</b> ▷ Alarm n ON delay time [0.0 ~ 999]        |
| <0105> <b>SV-3</b> ▷ Set value 3 (SV3) [-200, refer to input range]         | <a=0219> <b>2PID</b> ▷ 2.PID group  | <0317> <b>LBSV</b> ▷ Loop break alarm set value [2,EUS 0.0 ~ 5.0%]         | <0405> <b>REME</b> ▷ Enable remote input [OFF,OFF or ON]           | <0505+(n-1)x4> <b>ARnF</b> ▷ Alarm n OFF delay time [0.0 ~ 999]       |
| <0106> <b>SV-4</b> ▷ Set value 4 (SV4) [-200, refer to input range]         | <a=0228> <b>3PID</b> ▷ 3.PID group  | <0318> <b>LBD</b> ▷ Loop break alarm deadband [2,EUS 0.0 ~ 5.0%]           | <0406> <b>REMH</b> ▷ Remote input high limit [5.000,1.000 ~ 5.000] | <0506+(n-1)x4> <b>ARnEC</b> ▷ Alarm n contact type [N.O,N.O or N.C]   |
| <0106> <b>SV-4</b> ▷ Set value 4 (SV4) [-200, refer to input range]         | <a=0237> <b>4PID</b> ▷ 4.PID group  | <0319> <b>LBS</b> ▷ Loop break alarm output hold status [RST,RST or SET]   | <0407> <b>REML</b> ▷ Remote input low limit [1.000,1.000 ~ 5.000]  | <0507+(n-1)x4> <b>ARnL</b> ▷ Alarm n output hold [OFF,OFF or ON]      |
| <a+0> <b>nP</b> ▷ n. proportional band (heating) [EUS 5.0%,※1]              | <0246> <b>RMUP</b> ▷ Ramp-up [OFF, refer to input range]                  | <0320> <b>HB-1</b> ▷ Heater break alarm 1 set value [OFF,1.0 ~ 50.0]       | <0408> <b>R-SH</b> ▷ Remote input high scale value [1370,※1]       | <0520> <b>LOND</b> ▷ Loop break alarm ON delay time [0.0 ~ 999]       |
| <a+1> <b>nI</b> ▷ n. integral time (heating) [240,OFF or 1 ~ 6000]          | <0247> <b>UMPTM</b> ▷ Ramp-up time [01.00,00.01 ~ 99.59]                  | <0321> <b>HDB-1</b> ▷ Heater break alarm 1 deadband [0.5,0.1 ~ 50.0]       | <0409> <b>R-SL</b> ▷ Remote input low scale value [-200,※1]        | <0521> <b>LOFD</b> ▷ Loop break alarm OFF delay time [0.0 ~ 999]      |
| <a+2> <b>nD</b> ▷ n. derivative time (heating) [60,OFF or 1 ~ 6000]         | <0248> <b>RMDD</b> ▷ Ramp-down [OFF, refer to input range]                | <0015> <b>CTM</b> ▷ Current detection 1 monitoring [0.0,0.0 ~ 55.0]        | <0410> <b>R-AH</b> ▷ Remote input high adjust. value [0,※1]        | <0522> <b>LREC</b> ▷ Loop break alarm contact type [N.O,N.O or N.C]   |
| <a+3> <b>nMR</b> ▷ n. manual reset [50.0, -5.0 ~ 105.0]                     | <0249> <b>UMDTM</b> ▷ Ramp-down time [01.00,00.01 ~ 99.59]                | <0322> <b>HB-2</b> ▷ Heater break alarm 2 set value [OFF,1.0 ~ 50.0]       | <0411> <b>R-AL</b> ▷ Remote input low adjust. value [0,※1]         | <0523> <b>LALT</b> ▷ Loop break alarm output hold [OFF,OFF or ON]     |
| <a+4> <b>nPC</b> ▷ n. proportional band (cooling) [EUS 5.0%,※1]             | <0250> <b>MVBL</b> ▷ MV Bumpless [ON,OFF or ON]                           | <0323> <b>HDB-2</b> ▷ Heater break alarm 2 deadband [0.5,0.1 ~ 50.0]       |  | <0524> <b>HDBE</b> ▷ Enable heater break alarm 2 [OFF,OFF or ON]      |
| <a+5> <b>nIC</b> ▷ n. integral time (cooling) [240,OFF or 1 ~ 6000]         |   | <0016> <b>CTM</b> ▷ Current detection 2 monitoring [0.0,0.0 ~ 55.0]        |  | <0525> <b>HOND</b> ▷ Heater break alarm ON delay time [0.0 ~ 999]     |
| <a+6> <b>nDC</b> ▷ n. derivative time (cooling) [60,OFF or 1 ~ 6000]        |   | <0324> <b>HBS</b> ▷ Heater break alarm output hold status [RST,RST or SET] |  | <0526> <b>HOFD</b> ▷ Heater break alarm OFF delay time [0.0 ~ 999]    |
| <a+8> <b>nDB</b> ▷ n. heating/cooling deadband [3.0, -100.0 ~ 50.0]         |   |  |  | <0527> <b>HREC</b> ▷ Heater break alarm contact type [N.O,N.O or N.C] |
|   |   |  |  | <0528> <b>HALT</b> ▷ Heater break alarm output hold [OFF,OFF or ON]   |

| INPUT group  | OUTPUT group  | SET group  | COMM group  |
|--|---|--|---|
| <0900> <b>INP</b> ▷ Input type [K0,※1]                             | <0800> <b>CNT1</b> ▷ OUT1 control mode [PID,ONOFF or PID]   | <0700> <b>DIMD</b> ▷ Digital input mode [OFF,OFF or ON]              | <0600> <b>PRP</b> ▷ Communication protocol [PCK,※1]                   |
| <0901> <b>UNIT</b> ▷ Unit [°C,※1]                                  | <0801> <b>CNT2</b> ▷ OUT2 control mode [PID,NONE/ONOFF/PID] | <0701> <b>PODM</b> ▷ Operation mode after power on [RUN,STOP or RUN] | <0601> <b>BP</b> ▷ Baud rate [9.6k,※1]                                |
| <0904> <b>DP-P</b> ▷ Decimal point position [1,※1]                 | <0802> <b>ORCT</b> ▷ Control direction [REV,REV or DIR]     | <0702> <b>PINT</b> ▷ Parameter initialization [OFF,OFF or ON]        | <0602> <b>PRT</b> ▷ Parity bit [NONE,※1]                              |
| <0905> <b>SL-H</b> ▷ Scale high limit [100.0, -1999 ~ 9999]        | <0803> <b>CP</b> ▷ Control cycle (OUT1) [※1]                | <0703> <b>LOCK</b> ▷ Parameter set value lock [0,0 ~ 2]              | <0603> <b>STOP</b> ▷ Stop bit [1,1 or 2]                              |
| <0906> <b>SL-L</b> ▷ Scale low limit [0.0, -1999 ~ 9999]           | <0804> <b>CPC</b> ▷ Control cycle (OUT2) [※1]               | <0704> <b>E2PL</b> ▷ EEPROM lock during operation [OFF,OFF or ON]    | <0604> <b>LEN</b> ▷ Data length [8,7 or 8]                            |
| <0907> <b>RJC</b> ▷ Reference junction compensation [ON,OFF or ON] | <0805> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT1) [1,※1] | <0706> <b>CLSE</b> ▷ Indicator/controller selection [ON,OFF or ON]   | <0605> <b>ADPA</b> ▷ Address [1,1 ~ 99]                               |
| <0908> <b>FILT</b> ▷ Input filter [OFF,OFF or 1 ~ 120]             | <0806> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT2) [1,※1] | <041> <b>SYS</b> ▷ System data [0000~FFFF]                           | <0606> <b>APTH</b> ▷ Response delay time [1,1 ~ 99]                   |
| <0909> <b>BIAS</b> ▷ Input bias [0,※1]                             | <0807> <b>EO</b> ▷ Emergency output (OUT1) [0.0,※1]         | <042> <b>OPT</b> ▷ Option data [0000~FFFF]                           | <0701> <b>PODM</b> ▷ Operation mode after power on [RUN, STOP or RUN] |
|  | <0808> <b>EOC</b> ▷ Emergency output (OUT2) [0.0,※1]        | <045> <b>FVER</b> ▷ Firmware version [V0.00~Vx.xx]                   | <0703> <b>LOC</b> ▷ Parameter set value lock [0,0 ~ 2]                |
|  | <0809> <b>OL-H</b> ▷ Control output high limit [100,※1]     |  |   |
|  | <0810> <b>OL-L</b> ▷ Control output low limit [0.0,※1]      |  |   |

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

|   |   |
|---|---|
| <0900> <b>INP</b> ▷ Input type [K0,※1]                      | <0201> <b>AT</b> ▷ Auto-tuning [OFF,OFF or ON]              |
| <0909> <b>BIAS</b> ▷ Input bias [0,※1]                      | <0301> <b>AL-1</b> ▷ Alarm 1 setting [1570,※1]              |
| <0800> <b>CNT1</b> ▷ OUT1 control mode [PID,ONOFF or PID]   | <0305> <b>AL-2</b> ▷ Alarm 2 setting [1570,※1]              |
| <0801> <b>CNT2</b> ▷ OUT2 control mode [PID,NONE/ONOFF/PID] | <0309> <b>AL-3</b> ▷ Alarm 3 setting [1370,※1]              |
| <0802> <b>ORCT</b> ▷ Control direction [REV,REV or DIR]     | <0313> <b>AL-4</b> ▷ Alarm 4 setting [-200,※1]              |
| <0803> <b>CP</b> ▷ Control cycle (OUT1) [※1]                | <a=0210> <b>1PID</b> ▷ PID No.1                             |
| <0804> <b>CPC</b> ▷ Control cycle (OUT2) [※1]               | <a=0219> <b>2PID</b> ▷ PID No.2                             |
| <0805> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT1) [1,※1] | <a=0228> <b>3PID</b> ▷ PID No.3                             |
| <0806> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT2) [1,※1] | <a=0237> <b>4PID</b> ▷ PID No.4                             |
| <0300> <b>AL1V</b> ▷ Alarm 1 type [3, 0 ~ 13]               | <0805> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT1) [1,※1] |
| <0301> <b>AL-1</b> ▷ Alarm 1 value [1570,※1]                | <0806> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT2) [1,※1] |
| <0302> <b>ALD</b> ▷ Alarm 1 deadband [1,※1]                 |   |
| <0304> <b>AL2V</b> ▷ Alarm 2 type [10,0 ~ 13]               |   |
| <0305> <b>AL-2</b> ▷ Alarm 2 value [1570,※1]                |   |
| <0306> <b>ALD</b> ▷ Alarm 2 deadband [1,※1]                 |   |
| <0308> <b>AL3V</b> ▷ Alarm 3 type [1,0 ~ 13]                |   |
| <0309> <b>AL-3</b> ▷ Alarm 3 value [1370,※1]                |   |
| <0310> <b>ALD</b> ▷ Alarm 3 deadband [1,※1]                 |   |
| <0312> <b>AL4V</b> ▷ Alarm 4 type [2,0 ~ 13]                |   |
| <0313> <b>AL-4</b> ▷ Alarm 4 value [-200,※1]                |   |
| <0314> <b>ALD</b> ▷ Alarm 4 deadband [1,※1]                 |   |
| <0600> <b>PRP</b> ▷ Communication protocol [PCK,※1]         |   |
| <0601> <b>BP</b> ▷ Baud rate [9.6k,※1]                      |   |
| <0602> <b>PRT</b> ▷ Parity bit [NONE,※1]                    |   |
| <0603> <b>STOP</b> ▷ Stop bit [1,1 or 2]                    |   |
| <0604> <b>LEN</b> ▷ Data length [8,7 or 8]                  |   |
| <0605> <b>ADPA</b> ▷ Address [1,1 ~ 99]                     |   |
| <0606> <b>APTH</b> ▷ Response delay time [0,0 ~ 10]         |   |

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

|  |
|--|
| <0201> <b>AT</b> ▷ Auto-tuning [OFF,OFF or ON]                       |
| <0301> <b>AL-1</b> ▷ Alarm 1 setting [1570,※1]                       |
| <0305> <b>AL-2</b> ▷ Alarm 2 setting [1570,※1]                       |
| <0309> <b>AL-3</b> ▷ Alarm 3 setting [1370,※1]                       |
| <0313> <b>AL-4</b> ▷ Alarm 4 setting [-200,※1]                       |
| <a=0210> <b>1PID</b> ▷ PID No.1                                      |
| <a=0219> <b>2PID</b> ▷ PID No.2                                      |
| <a=0228> <b>3PID</b> ▷ PID No.3                                      |
| <a=0237> <b>4PID</b> ▷ PID No.4                                      |
| <0805> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT1) [1,※1]          |
| <0806> <b>HYS</b> ▷ ON/OFF control hysteresis (OUT2) [1,※1]          |
| <a+0> <b>nP</b> ▷ n. proportional band (heating) [EUS 5.0%,※1]       |
| <a+1> <b>nI</b> ▷ n. integral time (heating) [240,OFF or 1 ~ 6000]   |
| <a+2> <b>nD</b> ▷ n. derivative time (heating) [60,OFF or 1 ~ 6000]  |
| <a+3> <b>nMR</b> ▷ n. manual reset [50.0, -5.0 ~ 105.0]              |
| <a+4> <b>nPC</b> ▷ n. proportional band (cooling) [EUS 5.0%,※1]      |
| <a+5> <b>nIC</b> ▷ n. integral time (cooling) [240,OFF or 1 ~ 6000]  |
| <a+6> <b>nDC</b> ▷ n. derivative time (cooling) [60,OFF or 1 ~ 6000] |
| <a+8> <b>nDB</b> ▷ n. heating/cooling deadband [3.0, -100.0 ~ 50.0]  |

**※ 1 : Refer to the User's Manual**  
 ※ Please visit our homepage ([www.hanyoungnux.com](http://www.hanyoungnux.com)) and refer to the user manual in the archive.

**※ 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.**