

[TABLE] (301)입력유형 및 기능 설정

Instrument CODE (Input-A)			
Input	Type	CODE	Input Range
Unspecified	OFF	0	None
DC current	20 mA	1	0(4)~20mA
Loop Powered	20 mA	2	4 ~ 20 mA
DC voltage	10V	3	-10(0)~10V
	5 V	4	-5(0)~5 V
	1 V	5	-1(0)~1 V
	100 mV	6	-100(0)~100 mV
Thermocouple	E	101	-200~1000°C
	J	102	-200~1200°C
	K	103	-200~1300°C
	N	104	-200~1300°C
	R	105	-50~1750°C
	T	106	-200~400°C
	S	107	-50~1750°C
	B	108	250~1800°C
RTD(2-Wire)	Pt100	201	-200~800°C
RTD(3-Wire)		202	-200~800°C
RTD(4-Wire)		203	-200~800°C
Potentiometer		3-Wire	300
	301		~100 KΩ
	302		~50 KΩ
	303		~20 KΩ
	304		~10 KΩ
	305		~5 KΩ
	306		~2 KΩ
	307		~1 KΩ
	2-Wire	350	~200 KΩ
		351	~100 KΩ
		352	~50 KΩ
		353	~20 KΩ
		354	~10 KΩ
		355	~5 KΩ
		356	~2 KΩ
357	~1 KΩ		

→
07-1
(301)
입력A 설정

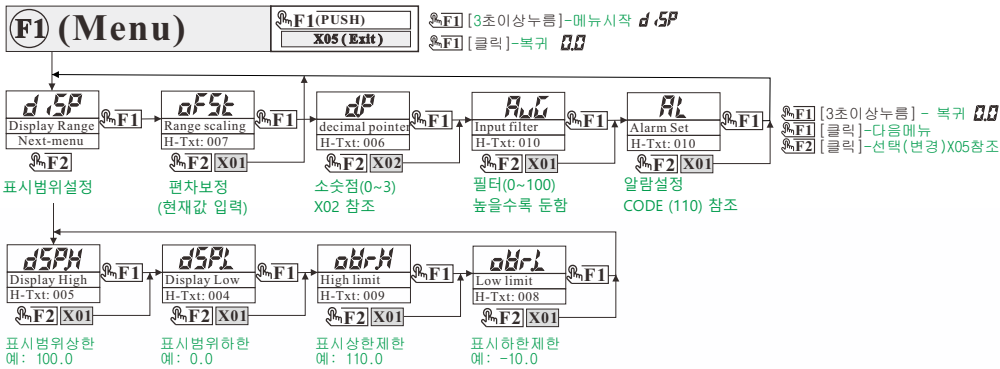
→
Funct
(301)
기능 설정

Instrument CODE (Function)			
FUNCTIONS description	CODE	INPUT	
Normal Input-A	0	Input-A	
Square-root	1		
Root-Extractor	2		
Integrator	3		
Peak-Holder(Higher)	4		
Peak-Holder(Lower)	5		
Peak-Holder(High&Low)	6		
Adder	7		Input(A + B)
Subtractor	8		Input(A - B)
Multiplier	9		Input(A * B)
Divider	10	Input(A / B)	
Normal Input-B	101	Input-B	
Square-root	102		
Root-Extractor	103		
Integrator	104		
Peak-Holder(Higher)	105		
Peak-Holder(Lower)	106		
Peak-Holder(High&Low)	107		
Subtractor	108	Input(B - A)	
Divider	109	Input(B / A)	
Normal input-A and B	201	Input-A to Output-1 Input-B to Output-2	

Instrument CODE (Input-B)			
Input	Type	CODE	Input Range
Unspecified	OFF	0	None
DC current	20 mA	1	0(4)~20mA
Loop Powered	20 mA	2	4~20 mA
DC voltage	10V	3	-10(0)~10V
	5 V	4	-5(0)~5 V
	1 V	5	-1(0)~1 V
	100 mV	6	-100(0)~100 mV

→
07-2
(301)
입력B 설정

** 입력 타입 및 기능은 주문 사양 으로 설정 되어 출고 됩니다
[The input type and function are set according to the order specification]



Setting Mode (설정 모드)

PUSH **F1 + F4**

- ① Press, hold (F1 + F4) > 3 seconds
(F1 + F4) 동시3초이상
- ② Enter CODE number(0302)
코드 번호 입력(X01참조)
- ③ **F4** 클릭 - CODE 번호실행

CODE Number
H-Txt: 001

Executable CODE (Setup setting)		
CODE	Description	
301	Input Mode (INPUT-A, INPUT-B and Function)	-실행할 CODE 번호
302	Input Range (Input-A and Input-B)	-(000) 취소 (cancel)
310	Set input range of display	-(301)입력유형 및 기능 설정
321	Display temperature (unit, scale and burn-out)	-(302)입력-A,입력-B 범위 설정
340	Display FND Intensity(0~16) Default:12	-(310) 입력 범위 설정 (예:4.00-20.00)
501	Integrator (count range [count / hour])	-(321)표시할 온도단위, 온도보상, 센서이상시 설정
601	Communication Set(MODBUS)	-(340) 표시부 밝기 설정 (예:0-16[최대밝기])
100	Alarm Functions (alarm point 1 ~ 7)	-(501) 적산 카운터 비율 설정 (예:100 [100%입력시 시간당 100 카운터])
101	Alarm Function Point (1)	(601) 통신기능설정(01, 9600, 8, 1, None)
102	Alarm Function Point (2)	-(100) 알람기능설정(1-7) 예:(AL1:[Setpoint- Open - High]
103	Alarm Function Point (3)	-(101) 알람(1)기능설정(1) 예:(AL1:[Setpoint- Open - High]
104	Alarm Function Point (4)	-(102) 알람(2)기능설정(2) 예:(AL2:[Setpoint- Close - Low]
105	Alarm Function Point (5)	-(103) 알람(3)기능설정(3) 예:(AL3:[Window- Open]
106	Alarm Function Point (6)	-(104) 알람(4)기능설정(4) 예:(AL4:[Window- Close]
107	Alarm Function Point (7)	-(105) 알람(5)기능설정(5) 예:(AL5:[Off]
110	Alarm Set-point (alarm point 1 ~ 7)	-(106) 알람(6)기능설정(6) 예:(AL6:[Off]
111	Alarm Set-point (1)	-(107) 알람(7)기능설정(7) 예:(AL7:[Off]
112	Alarm Set-point (2)	-(110) 알람설정(1-7) 예:(AL1: ~ AL7:)
113	Alarm Set-point (3)	-(111) 알람설정(1) 예:(AL1:[Setpoint:5000.0]-
114	Alarm Set-point (4)	-(112) 알람설정(2) 예:(AL2:[Setpoint:4000.0]-
115	Alarm Set-point (5)	-(113) 알람설정(3) 예:(AL3:[SetHigh:3000.0, SetLow:2000]-
116	Alarm Set-point (6)	-(114) 알람설정(4) 예:(AL4:[SetHigh:3000.0, SetLow:1000.0]-
117	Alarm Set-point (7)	-(115) 알람설정(5) 예:(AL5: [off]
		-(116) 알람설정(6) 예:(AL6: [off]
		-(117) 알람설정(7) 예:(AL7: [off]

X01 (Set Value)

값 설정(값변경)

-199999~+999999

F1 Next Item 다음메뉴
SET end 설정완료

F2 Enter 선택
Next Digit 다음자리

F3 Inc. Value 숫자 올림

F4 Dec. Value 숫자 내림

X02 (D.P.)

소숫점설정

0 ~ 5

0	0
1	0.0
2	0.00
3	0.000
4	0.0000
5	0.00000

X05 (Exit)

메인 복귀

F1

Press&hold>3sec.
3초이상 누름

DISPLAY(표시)

SAVE & RUN (MAIN)
저장 및 복귀

Help text in display (H-txt : 0000)

[004][dSP.L] Set display range low(display readout low)

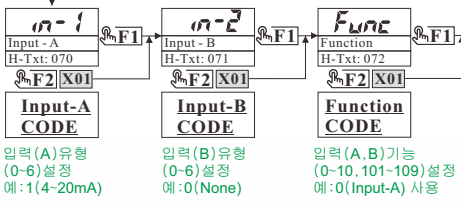
[005][dSP.H] Set display range high(display readout high)

[006][dP] Set the decimal point position to a number (0 ~ 5)

[007][oFFt] Display range scaling for deviation correction
Low value calibration is less than 40% of displayed
High value calibration is more than 60% of displayed
Offset clear at display 50%

301 (Input Type & Function)

F1 (Hold) > 3 sec. (301) 입력유형 및 기능 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



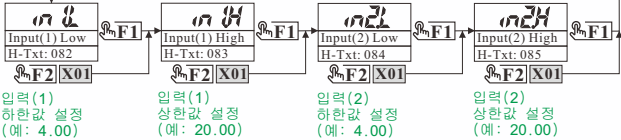
F1 [클릭]-다음메뉴
F2 [클릭]-선택(변경)X01참조

[070][in-1] (INPUT-A) Input Type-A (see the Instrument CODE(Input-A)table)
[071][in-2] (INPUT-B) Input Type-B (see the CODE(Input-B)table)
[072][Func] (FUNCTION) Selection of function (see the Instrument CODE(Function)table)

** [TABLE] 참조

302 (Input Range)

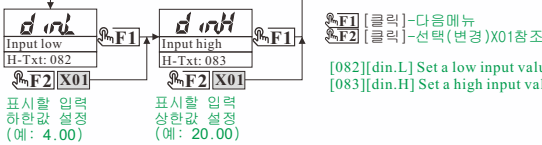
F1 (Hold) > 3 sec. (302) 입력유형 및 기능 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



F1 [클릭]-다음메뉴
F2 [클릭]-선택(변경)X01참조

310 (Input range of Display)

F1 (Hold) > 3 sec. (310) 입력유형 및 기능 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



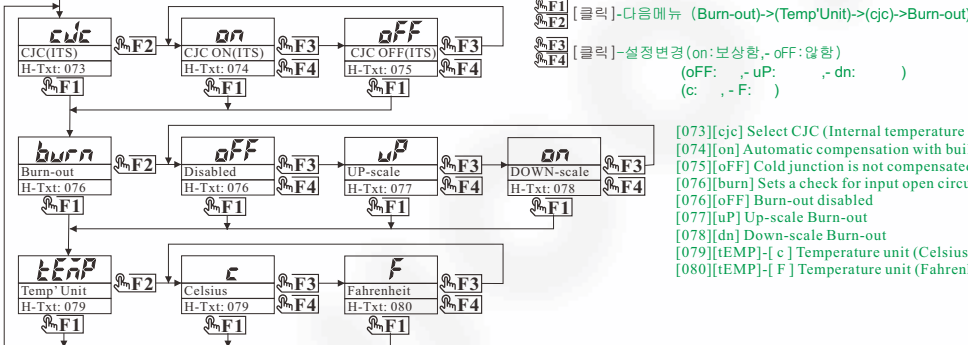
F1 [클릭]-다음메뉴
F2 [클릭]-선택(변경)X01참조

[082][din.L] Set a low input value for the display range (ex.: 4.00)
[083][din.H] Set a high input value for the display range (ex.: 20.00)

321 (Unit Identification)

Select the appropriate unit for temperature being displayed

F1 (Hold) > 3 sec. (321) 온도단위, 온도보상, 센서이상 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조

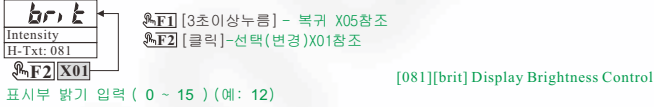


F1 [클릭]-다음메뉴 (Burn-out)->(TempUnit)->(cjc)->Burn-out)
F2 [클릭]-설정변경 (on:보상함, -off:없함)
F3 [클릭]-설정변경 (on:보상함, -off:없함)
F4 [클릭]-설정변경 (on:보상함, -off:없함)

[073][cjc] Select CJC (Internal temperature sensor) [Used only in (TC) mode]
[074][on] Automatic compensation with built in sensor(def:CJC:on)
[075][oFF] Cold junction is not compensated)
[076][burn] Sets a check for input open circuit
[076][oFF] Burn-out disabled
[077][uP] Up-scale Burn-out
[078][dn] Down-scale Burn-out
[079][tEMP]-[c] Temperature unit (Celsius)
[080][tEMP]-[F] Temperature unit (Fahrenheit)

340 (Display(FND) Intensity)

F1 (Hold) > 3 sec. (340) 밝기 설정(0-15(최대))
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



F1 [3초이상누름] - 복귀 X05참조
F2 [클릭]-선택(변경)X01참조

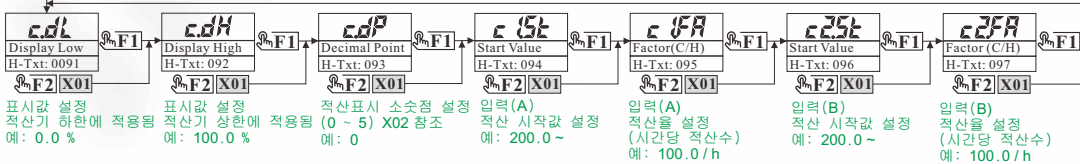
[081][brit] Display Brightness Control

[091][cn.dL] Set a low value for the display
[092][cn.dH] Set a High value for the display
[093][c.dP] Set decimal point display for counter display
[094][c1.St] Set counter<1> start value.
[095][c1.FA] Set the fact-value of the counter<1>(count / hour)
[096][c2.St] Set counter<2> start value.
[097][c2.FA] Set the fact-value of the counter<2>(count / hour)

501 (Counter parameter)

Select the appropriate unit for temperature being displayed

F1 (Hold) > 3 sec. (501) 적산기 (count) 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



F1 [클릭]-다음메뉴
F2 [클릭]-선택(변경)X01참조

표시값 설정
적산기 하한에 적용됨
예: 0.0 %

표시값 설정
적산기 상한에 적용됨
예: 100.0 %

적산표시 소숫점 설정
(0 ~ 5) X02 참조
예: 0

입력(A)
적산 시작값 설정
예: 200.0 ~

입력(A)
적산율 설정
(시간당 적산수)
예: 100.0 / h

입력(B)
적산 시작값 설정
예: 200.0 ~

입력(B)
적산율 설정
(시간당 적산수)
예: 100.0 / h

601 (COMMUNICATION)

RS-232C, RS-485 (MODBUS-RTU, ETC..)

F1 (Hold) > 3 sec. (601) 통신 (communication) 설정
X05 (Exit) F1 [3초이상누름] - 복귀 X05참조



F1 [클릭]-다음메뉴
F2 [클릭]-선택(변경)X01참조

주소 설정
(1 ~ 255)
예: 01

통신속도 설정
예: 9600

데이터 비트 설정
(7, 8, 9) Bit
예: 8

스톱 비트 설정
(1, 2)
예: 1

패리티 비트
(0:none 1:EVEN 2: ODD)
: 0 (none)

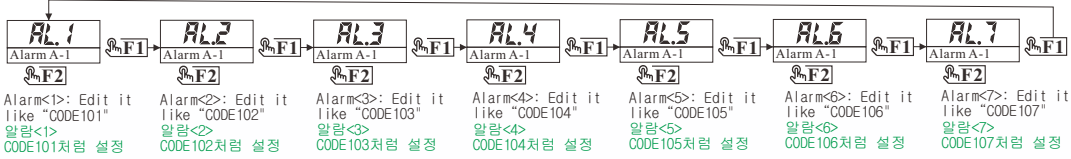
[101][Addr] Set a Slave address
[102][bAud] Set a Baud rate
[103][dAtA] Set a Data Bit (7-Bit, 8-Bit, or 9-Bit)
[104][StoP] Set a Stop Bit (1-Bit or 2-Bit)
[105][Pari] Set a Parity Bit (0-None, 1-EVEN or 2-ODD)

100 (Alarm<1~7> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(100)알람<1~7> 순차적으로 기능 설정
F1 [3초이상누름] - 복귀 X05참조

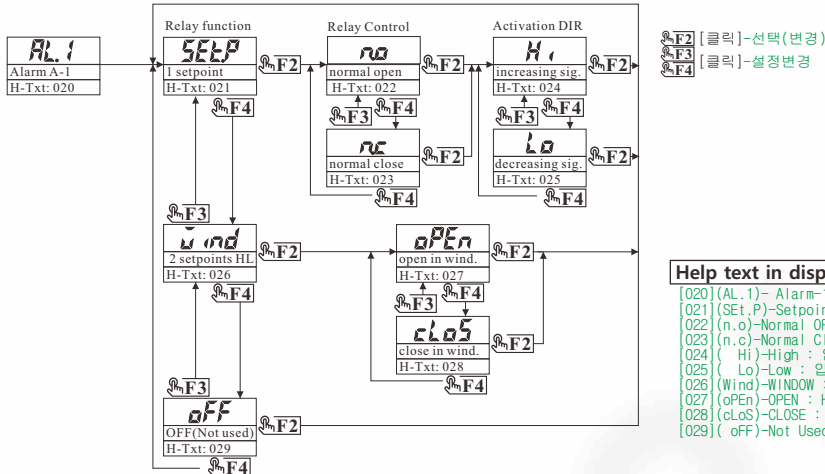
Alarm<1> to Alarm<7> are set sequentially



101 (Alarm<1> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(101)알람<1> 기능 설정
F1 [3초이상누름] - 복귀 X05참조



Help text in display (H-txt: 000)

- [020] (AL_1)- Alarm-1 : 알람 1
- [021] (SET_P)-Setpoint : 알람 1-포인트 기능 설정
- [022] (n.o)-Normal OPEN : 알람시알레이출력 ON
- [023] (n.c)-Normal Close : 알람시알레이출력 알람시 OFF
- [024] (Hi)-High : 입력증가시 릴레이출력(HIGH)
- [025] (Lo)-Low : 입력감소시 릴레이출력(LOW)
- [026] (Wind)-WINDOW : 윈도우타입 알람 2-포인트(High-Low)
- [027] (oPeN)-OPEN : High - Low 사이에서 Open(OFF) 윈도우 내-알람 OFF
- [028] (cLoS)-CLOSE : High - Low 사이에서 Close(ON) 윈도우 내-알람 ON
- [029] (oFF)-Not Used (사용안함)

102 (Alarm<2> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(102)알람<2> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

103 (Alarm<3> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(103)알람<3> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

104 (Alarm<4> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(104)알람<4> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

105 (Alarm<5> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(105)알람<5> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

106 (Alarm<6> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(106)알람<6> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

107 (Alarm<7> Function)

F1(Hold) > 3 sec.
X05 (Exit)

(107)알람<7> 기능 설정
F1 [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 설정함)

X01 (Set Value)	
값 설정(값변경)	
-199999~+999999	
8888	
F1	Next Item 다음메뉴 SET end 설정완료
F2	Enter 선택 Next Digit 다음자리
F3	Inc. Value 숫자 올림
F4	Dec. Value 숫자내림

X05 (Exit)	
메인 복귀	
F1	
Press&hold>3sec. 3초이상 누름	
DISPLAY (표시)	
8888	
SAVE & RUN (MAIN)	
저장 및 복귀	

110 (Alarm<1~7> Value setting)

F1 (Hold) > 3 sec. (110)알람<1-7> 순차적으로 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

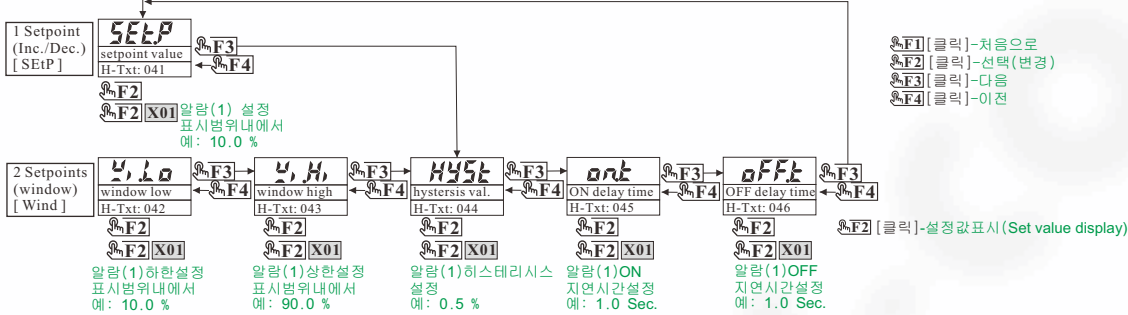
Alarm<1> to Alarm<7> are set sequentially

** Passed when the "Function - OFF" (FUNCTION에서 "OFF"로 설정되면 다음으로 이동함.**



111 (Alarm<1> Value setting)

F1 (Hold) > 3 sec. (111)알람<1> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조



112 (Alarm<2> Value setting)

F1 (Hold) > 3 sec. (112)알람<2> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

113 (Alarm<3> Value setting)

F1 (Hold) > 3 sec. (113)알람<3> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

114 (Alarm<4> Value setting)

F1 (Hold) > 3 sec. (114)알람<4> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

115 (Alarm<5> Value setting)

F1 (Hold) > 3 sec. (115)알람<5> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

116 (Alarm<6> Value setting)

F1 (Hold) > 3 sec. (116)알람<6> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

117 (Alarm<7> Value setting)

F1 (Hold) > 3 sec. (117)알람<7> 입력
X05 (Exit) **F1** [3초이상누름] - 복귀 X05참조

Same as Alarm<1> setting (알람<1>과같이 입력함)

Help text in display (H-txt: 000)

- [041] [A1.SP]-Alarm-1 Set-point : 알람 1- 입력
- [042] [A1.SL]-Alarm-1 Set Window-LOW (알람1 윈도우 하한 입력)
- [043] [A1.SH]-Alarm-1 Set Window-HIGH (알람1 윈도우 상한 입력)
- [044] [Hs.1]-Alarm-1 Set Hysteresis (알람1 히스테리시스 입력)
- [045] [A1.on]-Alarm-1 Set ON delay time(알람1 ON 지연시간 입력)
- [046] [A1.off]-Alarm-1 Set OFF delay time(알람1 OFF 지연시간 입력)

X01 (Set Value)	
값 설정(값변경)	
-199999~+999999	
8888	
F1	Next Item 다음메뉴 SET end 설정완료
F2	Enter 선택 Next Digit 다음자리
F3	Inc. Value 숫자 올림
F4	Dec. Value 숫자 내림

X05 (Exit)	
메인 복귀	
F1	
Press&hold>3sec. 3초이상 누름	
DISPLAY (표시)	
S W O O	
SAVE & RUN (MAIN)	
저장 및 복귀	

Output Type (OUTPUT-1, 2)			
Type	CODE	Range	
Unspecified	OFF	0	
DC current	20 mA	1	4~20mA
	20 mA	2	0~20mA
DC voltage	5 V	3	1~5 V
	5 V	4	0~5 V
	10 V	5	2~10 V
	10 V	6	0~10 V
	±5 V	7	-5 ~ +5 V
	±10 V	8	-10 ~ +10 V

(1,2) 유형(0-8) (: 4~20mA)

- (0)출력 없음(없음)
- (1)전류출력(4-20mA)
- (3)전압출력(1-5V)

**** 전압 및 전류출력은 주문시 결정 됩니다**
 [Voltage and current output are determined when ordering]
**** 출고시 표준 출력으로 설정 됩니다**
 [It is set to standard output at the factory]

Setting Mode (설정 모드)

PUSH **F1 + F4**

① Press, hold (F1 + F4) > 3 seconds (F1 + F4) 동시3초이상
 ② Enter CODE number(0302) 코드 번호 입력(X01참조)
 ③ **F4** 클릭 - CODE 번호실행

CODE Number
H-Txt: 001

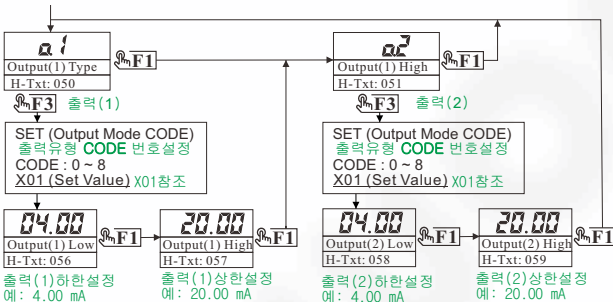
**** 주의가 필요합니다**
 [Needs attention.]

Executable CODE (Setup setting)	
CODE	Description
200	Output Type & Output range (mA, V) [OUTPUT-1, 2]
210	Display range to output [OUTPUT-1, 2]
800	Calibration Analog output [OUTPUT-1 (0~20mA)]
810	Calibration Analog output [OUTPUT-2 (0~20mA)]

- 실행할 CODE 번호
- (000) 취소 (cancel)
- (200) 출력유형 및 범위 설정 (예:4.00-20.00)
- (210) 출력할 표시범위 설정 (예:0.0-100.0)
- (800) 출력(1) 교정 (0% ~ 100%)

200 Output-Type & range (mA, V) 출력유형및범위
 Output type and Output range in (mA, V)

F1(Hold)>3sec. (200)출력유형 및 범위설정
X05 (Exit) **F1** [3초이상누름]-복귀X05참조



X01 (Set Value) 값 설정 (값변경)

-199999~+999999

F1 Next Item 다음메뉴 SET_end 설정완료

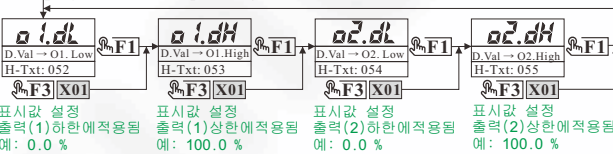
F2 Enter 선택 다음자리

F3 Inc. Value 숫자 올림

F4 Dec. Value 숫자 내림

210 (Display range to output) 표시치의 출력할범위
 Display value for output range

F1(Hold)>3sec. (210)표시값의 출력할범위설정(예:0.0-100.0)
X05 (Exit) **F1** [3초이상누름]-복귀X05참조



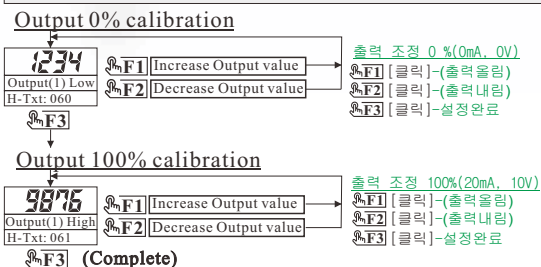
X05 (Exit) 메인 복귀

F1 Press&hold>3sec. 3초이상 누름

DISPLAY (표시)

SAVE & RUN (MAIN) 저장 및 복귀

800 (Calibration Output-1) 출력(1)
810 (Calibration Output-2) 출력(2)



****Check output value with DM. (DM으로 출력값 확인)**

Help text in display (H-txt: 000)

- [050] Set Output-1 Type(mA, V)
- [051] Set Output-2 Type(mA, V)
- [052] Display value for output-1 Low (The output range is within display range)
- [053] Display value for output-1 High (The output range is within display range)
- [054] Display value for output-2 Low (The output range is within display range)
- [055] Display value for output-2 High (The output range is within display range)
- [056] Output-1 Low Range in (mA or Voltage)
- [057] Output-1 High Range in (mA or Voltage)
- [058] Output-2 Low Range in (mA or Voltage)
- [059] Output-2 High Range in (mA or Voltage)
- [060] Calibration output LOW to process value 0%
- [061] Calibration output HIGH to process value 100%