

**NDSC [ TABLE ] (301)입력유형 및 기능 설정**

(301)  
입력A 설정



Instrument CODE (Input-A)			
Input	Type	CODE	Input Range
Unspecified	OFF	0	None
DC current	20 mA	1	0(4)~20mA
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

(301)  
입력B 설정



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

(301)  
기능 설정



Instrument CODE (Function)		
FUNCTIONS	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)
Two Converters	201	IN-A to Out-1 IN-B to Out-2

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

**NRTD [ TABLE ] (301)입력유형 및 기능 설정**

(301)  
입력A 설정

In-1 →

Instrument CODE (Input-A)			
Input	Type	CODE	Input Range
RTD(2-Wire)	Pt100	201	-200~800°C
	Pt500	202	-200~800°C
	Pt1000	203	-200~800°C
RTD(3-Wire)	Pt100	211	-200~800°C
	Pt500	212	-200~800°C
	Pt1000	213	-200~800°C
RTD(4-Wire)	Pt100	221	-200~800°C
	Pt500	222	-200~800°C
	Pt1000	223	-200~800°C

(301)  
입력B 설정

In-2 →

Instrument CODE (Input-B)			
Input	Type	CODE	Input Range
Unspecified	OFF	xxx	None

(301)  
기능 설정

Func →

Instrument CODE (Function)		
FUNCTIONS	CODE	DISPLAY
Normal Input-A	0	Temperature(°C)
Normal Input-B	101	Resistance(Ω)

**NTC [ TABLE ] (301)입력유형 및 기능 설정**

(301)  
입력1 설정

In-1 →

Instrument CODE (Input-A)			
Input	Type	CODE	Input Range
Termocouple	E	101	-200~1000°C
	J	102	-210~1200°C
	K	103	-200~1372°C
	N	104	-200~1300°C
	R	105	-50~1768°C
	T	106	-200~400°C
	S	107	-50~1768°C
	B	108	250~1820°C

(301)  
입력B 설정

In-2 →

Instrument CODE (Input-B)			
Input	Type	CODE	Input Range
Unspecified	OFF	0	None

(301)  
기능 설정

Func →

Instrument CODE (Function)		
FUNCTION	CODE	INPUT
Normal Input-A	0	Input-A

**NPMC [ TABLE ]** (301)입력유형 및 기능 설정

(301)  
입력A 설정

IN-1 →

Instrument CODE (Input-A)			
Input	Type	CODE	Input Range
Potentiometer	3-Wire	300	(auto-select) ~200 KΩ
		301	~100 KΩ
		302	~50 KΩ
		303	~20 KΩ
		304	~10 KΩ
		305	~5 KΩ
		306	~2 KΩ
		307	~1 KΩ
	308	~ 400 Ω	
	2-Wire	350	(auto-select)~200 KΩ
		351	~100 KΩ
		352	~50 KΩ
		353	~20 KΩ
		354	~10 KΩ
		355	~5 KΩ
356		~2 KΩ	
357	~1 KΩ		
358	~ 400 Ω		

(301)  
입력B 설정

IN-2 →

Instrument CODE (Input-B)			
Input	Type	CODE	Input Range
Unspecified	OFF	xxx	None

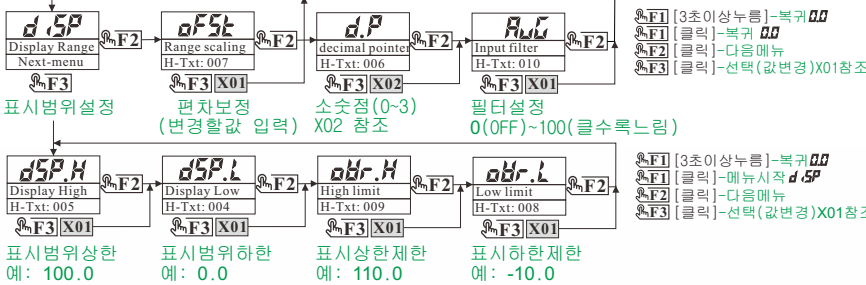
(301)  
기능 설정

Func →

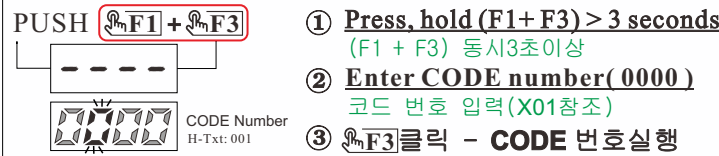
Instrument CODE (Function)		
FUNCTIONS	CODE	DISPLAY
Normal Input-A	0	Percent(%)
Normal Input-B	101	Resistance(Ω)

**NIPD [ TABLE ]** (301) NONE (기능 설정 없음)

**F1 Menu (Operating Mode) 운전 모드**      F1 (PUSH) X05 (Exit)      F1 (클릭)-메뉴시작 d.SP      F1 (클릭)-복귀 00



**Setting Mode (설정 모드)**



**HOT-key**

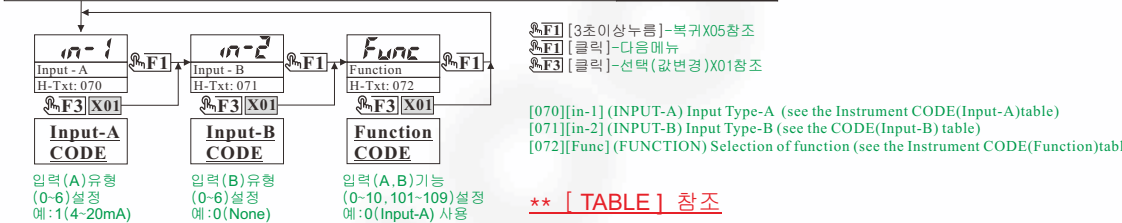
- F1 Menu
- F2 Version
- F3 display alternately (nor./count/res....)
- F1+F3 CODE Number
- F2+F3 RESET(count, peak-hold)
- \*\* 주의가 필요합니다 [ Needs attention. ]

**Executable CODE (Setup setting)**

CODE	Description
301	Input Mode (INPUT-A, INPUT-B and Function)
310	Set input range to display
321	Display temperature unit scale and burn-out

- 실행할 CODE 번호
- (000) 취소 ( cancel )
- (301)입력유형 및 기능 설정
- (310) 입력 범위 설정 (예:4.00-20.00)
- (321)표시할 온도단위, 온도보상, 센서이상시 설정

**301 (Input Type & Function) 입력유형및기능 설정**      F1(Hold)>3sec. X05 (Exit)



**X01 (Set Value)**  
값 설정(값변경)

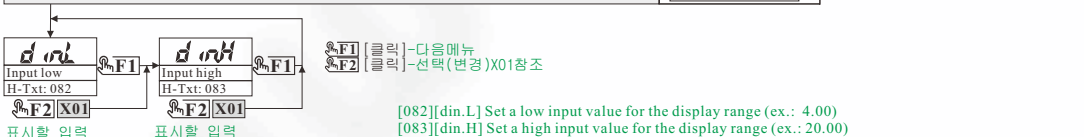
-1999~+9999

**F1** Next Digit 다음 자리

**F2** Inc. Value 숫자 올림

**F3** Set END 설정 완료

**310 (Input range to Display) 표시할 입력 범위**      F1(Hold)>3sec. X05 (Exit)

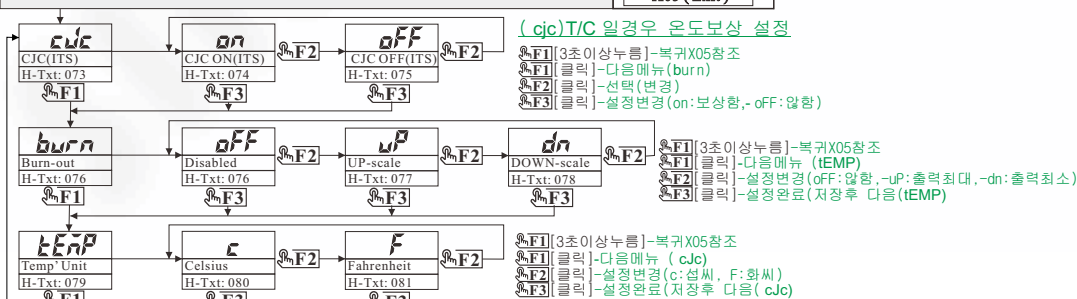


**X02 (D.P.)**  
소숫점설정

0 ~ 3

0	0	0.0
1	0.0	0.00
2	0.00	0.000
3	0.000	0.0000

**321 (Temperature sensor) 온도센서 설정**      F1(Hold)>3sec. X05 (Exit)



**X05 (Exit)**  
메인 복귀

**F1** Press&hold>3sec. 3초이상 누름

**DISPLAY** (표시)

**SAVE & RUN (MAIN)** 저장 및 복귀

- [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)

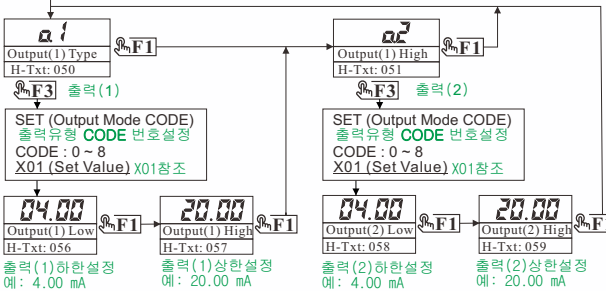
- [004][dSP.L] Set display range low(display readout low)
- [005][dSP.H] Set display range high(display readout high)
- [006][dP] Set the decimal point position to a number ( 0 - 3 )
- [007][oFFt] Display range scaling for deviation correction  
Low value calibration is less than 40% of displayed  
High value calibration is more than 60% of displayed  
Offset clear at display 50%
- [008][oVr.L] Set lower limit of display value.
- [009][oVr.H] Set upper limit of display value.
- [010][FL.Ad][Av.G] Set input filter(1~100)  
It is similar to the input average(def: 1)

Output Type (OUTPUT-1, 2)			
Type	CODE	Range	
Unspecified	OFF	0	None (없음)
DC current (전류출력)	20 mA	1	4~20mA
	20 mA	2	0~20mA(std)
DC voltage (전압출력)	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(std)

Setting CODE number (CODE 번호)	
200	Output Type & Output range (mA, V) [ OUTPUT-1, 2 ]
210	Display range to output [ OUTPUT-1, 2 ]
220	Frequency Output (Cut-off, Linearity)
230	Linear-Output slope setting (1~10)
800	Calibration Analog output [OUTPUT-1 (0~20mA)]
810	Calibration Analog output [OUTPUT-2 (0~20mA)]

- 실행할 CODE 번호 (0000) 취소 (cancel)
- (200) 출력유형 및 범위 설정 (예:4.00-20.00)
- (210) 출력할 표시범위 설정 (예:0.0~100.0)
- (220) 주파수 출력시 설정
- (230) 출력 기울기 설정(최대 10 steps)
- (800) 출력(1) 교정 (0%(0mA)~100%(20mA))
- (810) 출력(2) 교정 (0%(0mA)~100%(20mA))

### 200 Output-Type & range (mA, V) 출력유형및범위

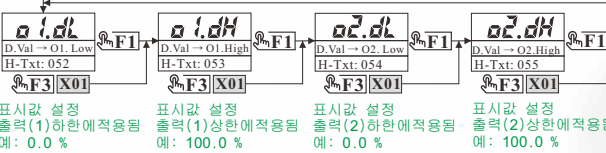


**F1(Hold)>3sec.** (200)출력유형 및 범위설정  
**X05 (Exit)** **F1** [3초이상누름]-복귀X05참조  
**F1** [3초이상누름]-복귀X05참조  
**F1** [클릭]-다음메뉴  
**F3** [클릭]-선택(값변경)X01참조

**\*\* 출고시 표준 출력으로 설정 됩니다 [It is set to standard output at the factory]**

출력유형 CODE 설정(0~8) X01참조  
 출력범위 설정(예: 4.00mA~20.00mA) X01참조

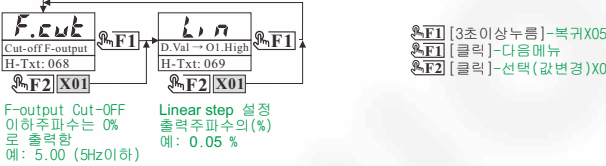
### 210 (Display range to output) 표시치의 출력할범위



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

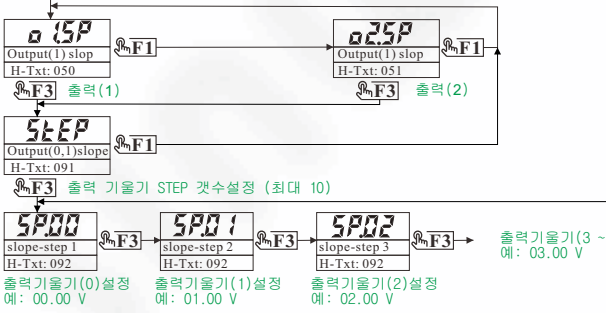
**\*\*범위 출력 [Range output]**  
**F1** [3초이상누름]-복귀X05참조  
**F1** [클릭]-다음메뉴  
**F3** [클릭]-선택(값변경)X01참조

### 220 Frequency Output (Cut-off, Linearity) 주파수 출력 설정



**F1(Hold)>3sec.** (220)주파수출력설정  
**X05 (Exit)** **F1** [3초이상누름]-복귀X05참조

### 230 Output-Slope (Linear setting) 출력 리니어 설정



**F1(Hold)>3sec.** (230)출력리니어설정  
**X05 (Exit)** **F1** [3초이상누름]-복귀X05참조

출력설정(예:출력1 또는 출력2)  
**F1** [클릭]-다음메뉴  
**F3** [클릭]-선택(값변경)X01참조

**F1** [3초이상누름]-복귀X05참조

출력기울기(3~7)설정  
 예: 03.00 V  
**F3** [클릭]-선택(값변경)X01참조

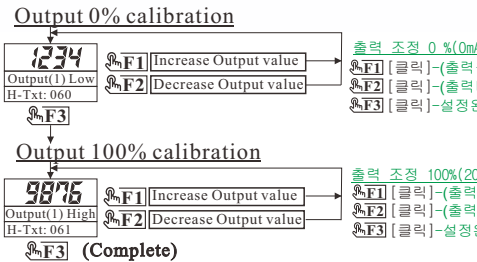
출력기울기(8)설정  
 예: 09.00 V  
**F3** [클릭]-선택(값변경)X01참조

출력기울기(9)설정  
 예: 10.00 V  
**F3** [클릭]-선택(값변경)X01참조

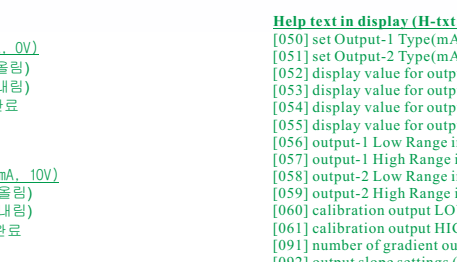
X01 (Set Value)	
값 설정(값변경)	
-1999~+9999	
234	
<b>F1</b>	Next Digit 다음 자리
<b>F2</b>	Inc. Value 숫자 올림
<b>F3</b>	Set END 설정 완료

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

### 800 (Calibration Output-1) 출력(1)



### 810 (Calibration Output-2) 출력(2)



#### 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%
- [091] number of gradient output steps(2~10 max.10)
- [092] output slope settings (output range)

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

Set slope-value( 2 ~ 10 ) step0 to step1 to step 2,3,4,5,6,7,8,9 and step 10