

사용설명서

pH 측정기 DI-PH1000 pH Meter



SECHANG INSTRUMENTS

1.

DIGITAL PH CONTROLLER PH-1000




PH-1000

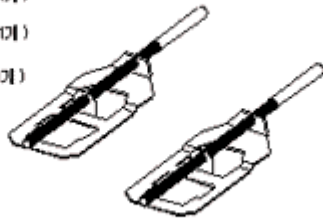
가

*

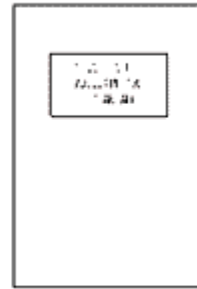


계기본체 (1 대)

-  6.8kΩ (개)
-  500Ω (개)
-  스틱 (개)



취부금구 2 개



취급설명서 1 부

2.

DIN 96×96 SIZE

, CAL
가

pH/ORP

pH ORP

Back Up

OFF

Back Up

4 ~ 20mA

4 ~ 20mA

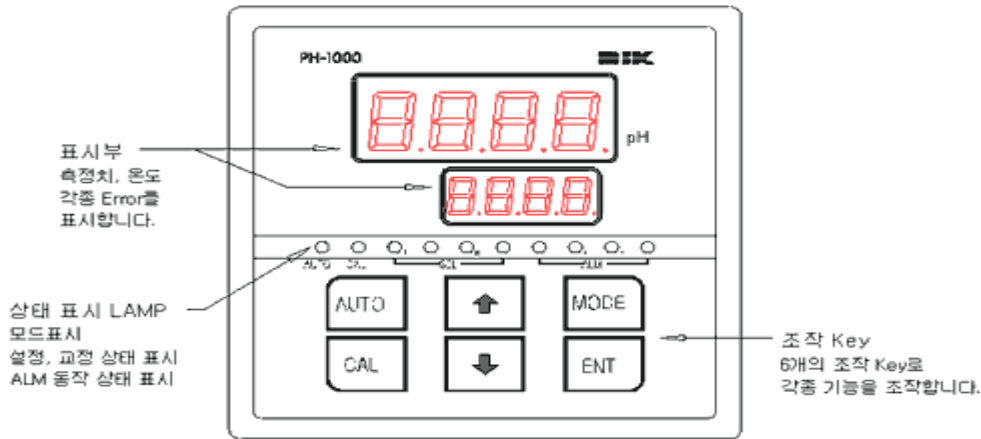
4

가

3.

1. PH-1000
pH 0 ~ 14.0 : 0.01pH
2. ORP ± 1400mV : 1mV
-9.9 ~ +99.9 : 0.1
3. pH ± 0.05 ORP ± 5mV
DC 4 ~ 20mA
4. : 500Ω
: 0.5%
5. pH : 0 ~ 14pH
ORP : ±700mV , ±1400mV
1COM - 4
: AC250V, 3A ()
6. : ON/OFF
CH1:LL, CH2:L, CH3:H, CH4: HH
: PH: 0.01 ~ 2.0pH, ORP: ±1 ~ 200mV
7. pH : 2 or
ORP : 2
Error
8. 가 -
-
-
9. 6.8KΩ (25) or 500Ω (25)
10. 0 ~ 100 (pH meter)
11. / -5 ~ 40 / 85%RH
12. AC 100 ~ 120V/AC 200 ~ 240V 50/60Hz 10W
13. DIN 96×96 case :
14. 600 g

4.



)
4-1.

AUTO () ON ()
AUTO LAMP가

CAL () ON CAL LAMP가

MODE ON 가
() 1 가
UP, DOWN
UP, DOWN
ON 1 UP, DOWN

ENT DATA

4-2. LAMP

AUTO LAMP LAMP

LAMP

CAL LAMP CAL ON AUTO ON
:
:
가 , or
가

SEL LL,L,H,HH LAMP . MODE ALM LL,L,H,HH

ALM LL,L,H,HH LAMP ON

OFF

5.

5-1.

가 40 -5
가

가
() 가

가 85%RH

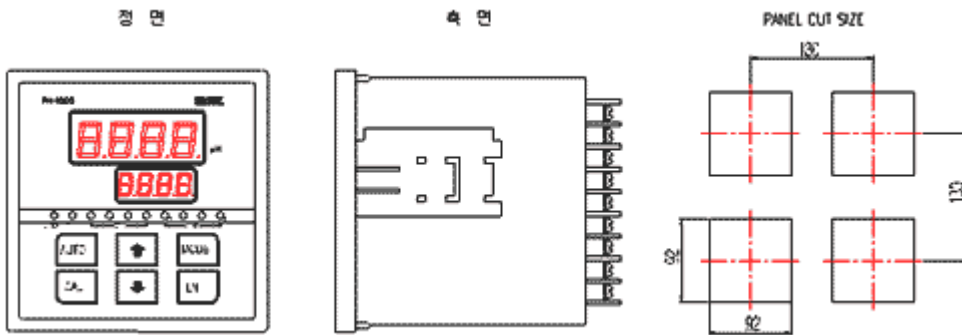
가 가

5-2.

(PANEL MOUNT) Type

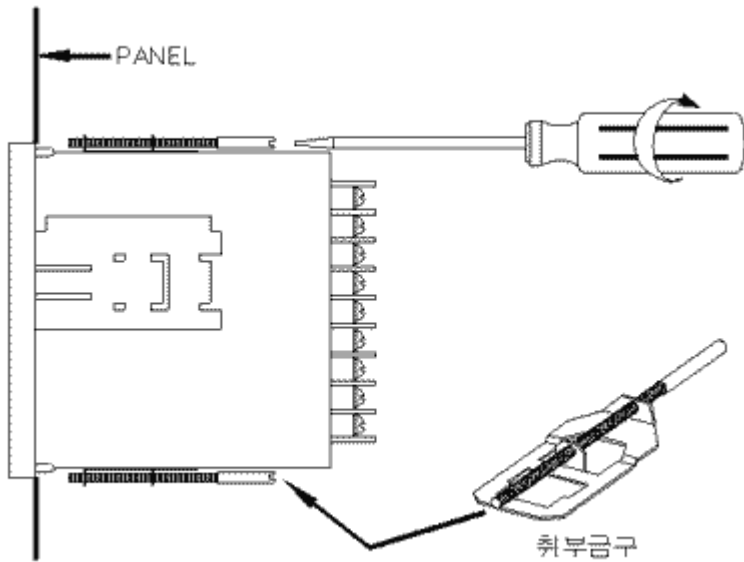
PANEL

1 ~ 5mm



()

(-)



6.

6-1.

() AC250V,3A .

POWER

ALM1 ~ 4 (1COM) 4 .

ALM1 (LL) :

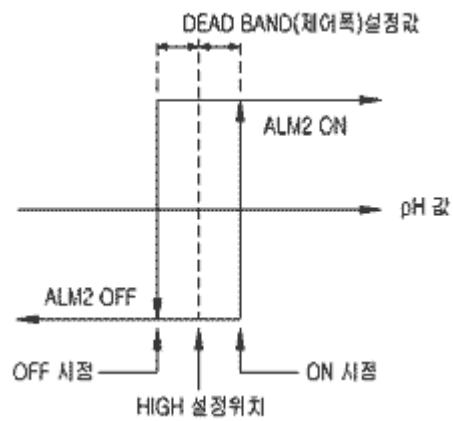
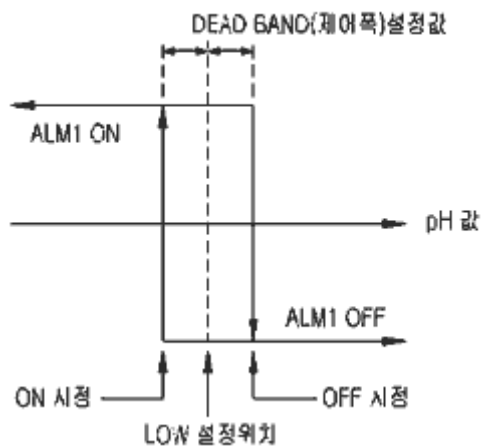
ALM2 (L) :

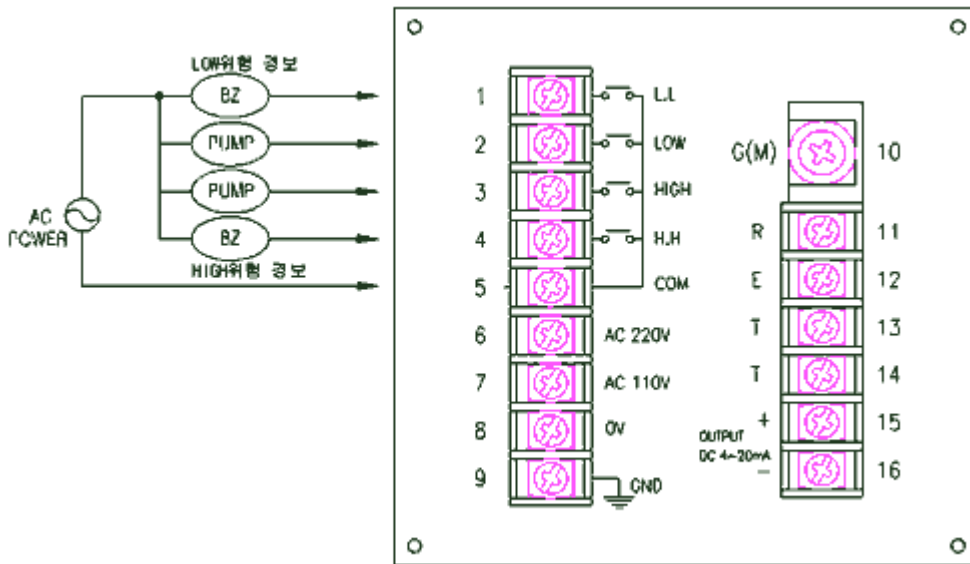
ALM3 (H) :

ALM4 (HH) :

*ALM1,2 (LOW)

*ALM3,4 (HIGH)





6-2.

() PH

가

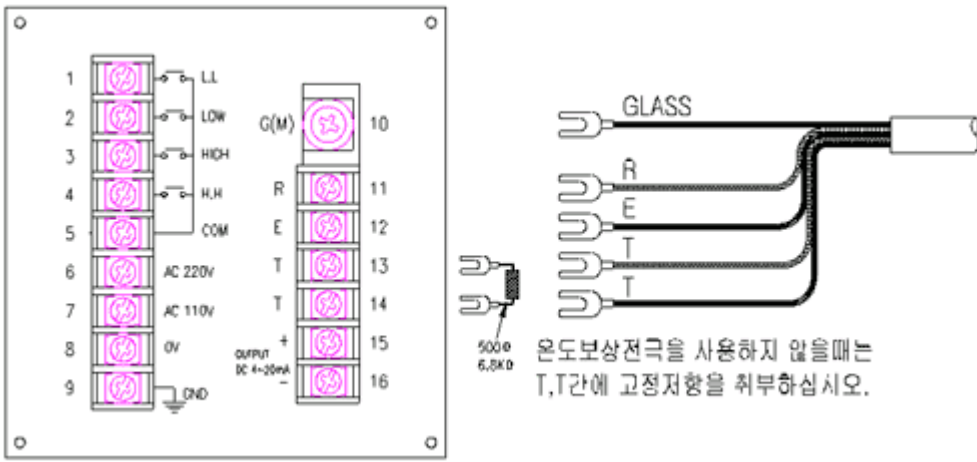
()

CONTROL BOX

BOX

50m

flexible tube(가)



가

()

T T

()

500

6.8kΩ type

type

G(M)

G glass

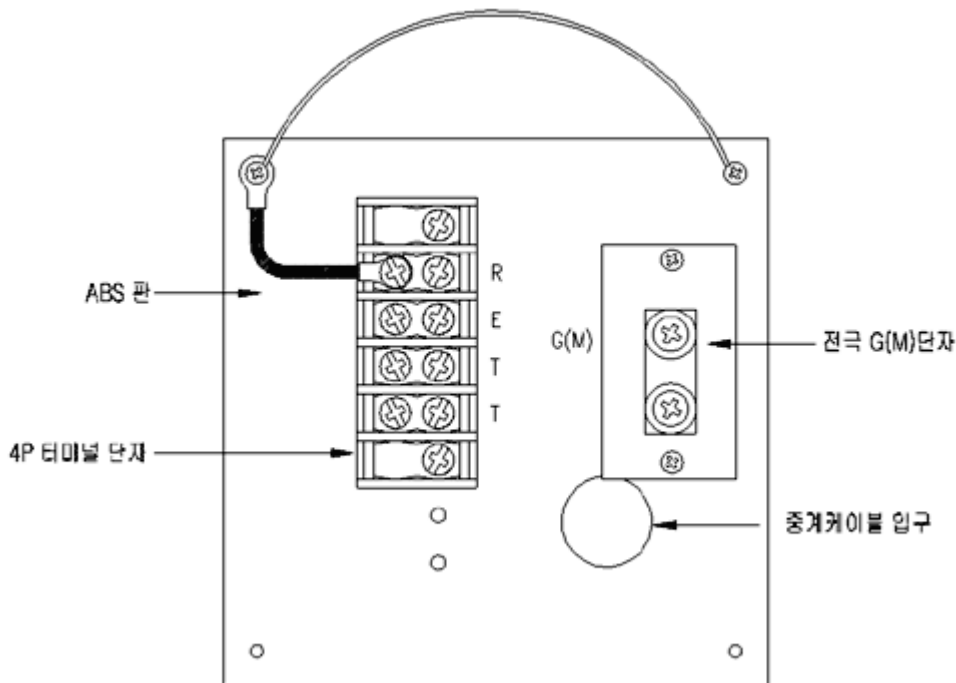
(PH)

R

T.T

E

6-3. BOX



가

6-3-1.

6-3-2.

가

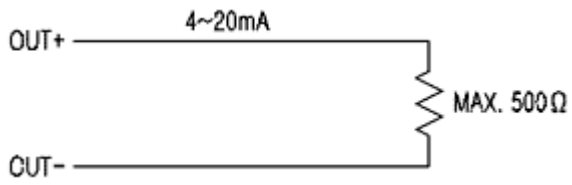
6-3-3.

가

가

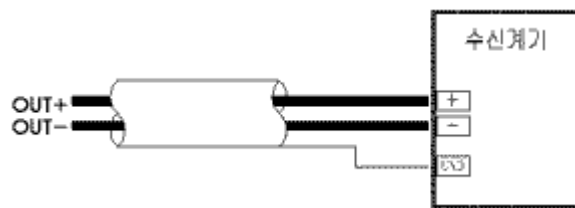
6-4.

RANGE DC4 ~ 20mA 가
500



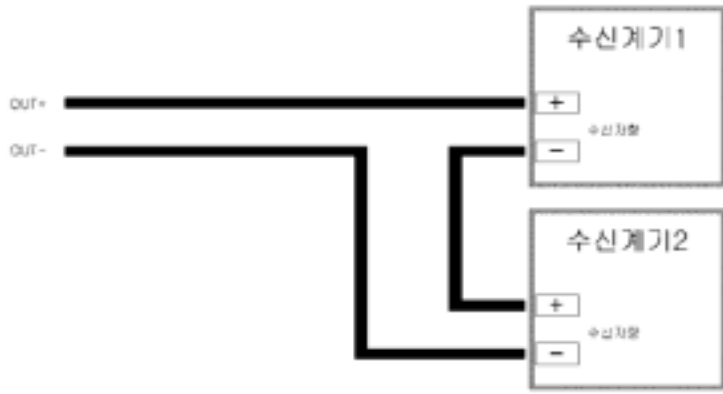
가

2

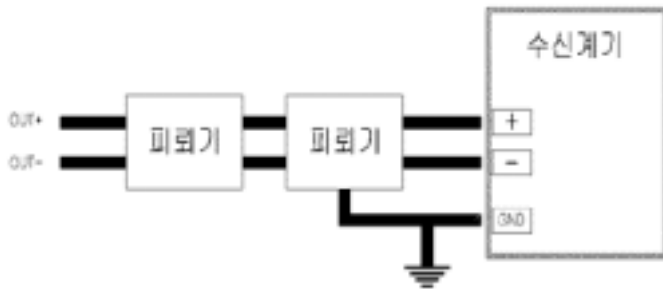


500

500



가 pH



6-5.

AC 100 ~ 120V/AC 200 ~ 240V 50/60Hz

()

SW가

()

가

SW

()

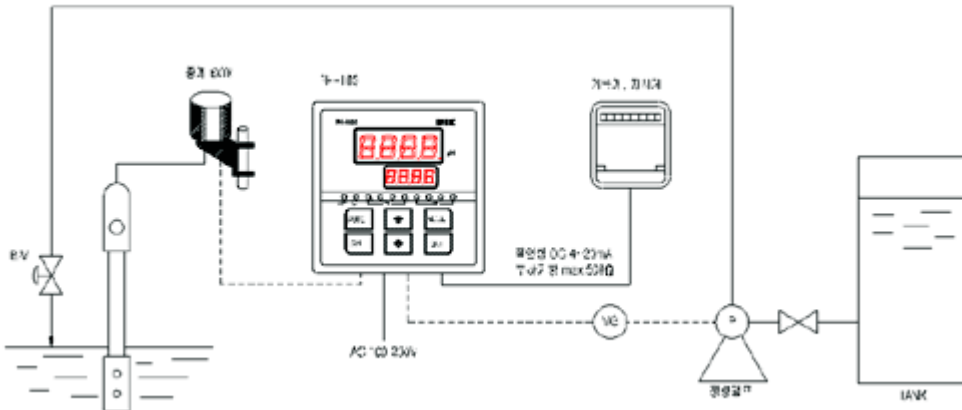
(GND)

7.

7-1

가

SYSTEM



7-2. (pH)

가

가

2

2

: - pH4(25 at 4.01), pH7(25 at 6.86), pH9(25 at 9.18)

- (pH4, 7) (pH7, 9), (pH4, 9) 가

- (4 7) (7 4)

- pH (pH4, 7, 9)

가

PH

()	PH4()	PH7()	PH9()
0	4.01	6.98	9.46
5	4.01	6.95	9.39
10	4.00	6.92	9.33
15	4.00	6.90	9.27
20	4.00	6.88	9.22
25	4.01	6.86	9.18
30	4.01	6.85	9.14
35	4.02	6.84	9.10
40	4.03	6.84	9.07
45	4.04	6.83	9.04
50	4.06	6.83	9.01
55	4.08	6.84	8.99
60	4.10	6.84	8.96

70	4.12	6.85	8.93
80	4.16	6.86	8.89
90	4.20	6.88	8.85
95	4.23	6.89	8.83

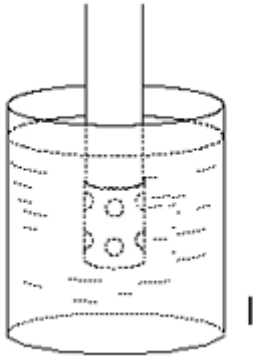
7-3. pH

()

AUTO KEY ON

DATA

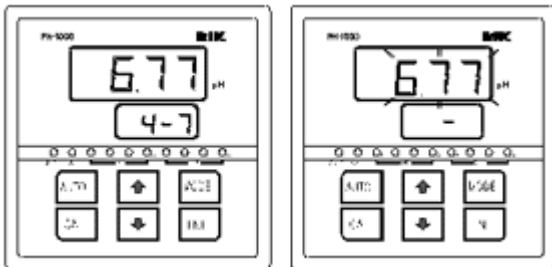
7pH



CAL KEY 1 ON

AUTO LAMP가 , CAL LAMP가

가



pH

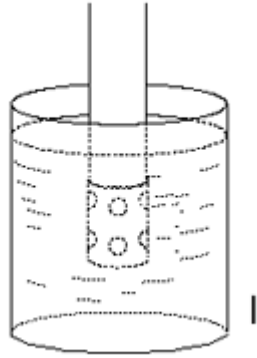
CAL KEY ON

가

DATA가



4pH



ENT KEY ON

pH

KEY ON

CAL

가
가

DATA



4-7

2

() ENT KEY ON

DATA

ENT KEY ON

n ICE



7-4. pH

pH4, 7, 9

()

T.T 25

pH (

pH 가

2

2

:

2

, 2pH

가

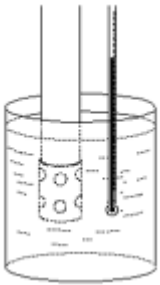
- 2

- 가

7-4-1.

() AUTO KEY ON
DATA

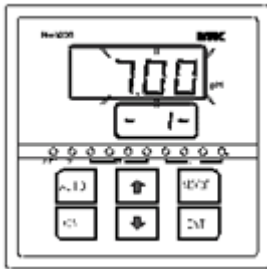
1



CAL KEY 1 ON . AUTO LAMP가 , CAL LAMP가

[1

.]



가 ENT KEY ON
가 COPY

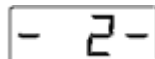


UP, DOWN KEY 1 pH

ENT KEY ON 1

[2

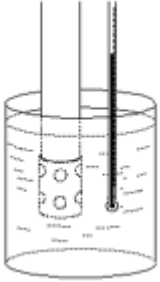
.]



가



2



가

ENT KEY ON

가

COPY



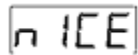
UP, DOWN KEY 2

pH



() ENT KEY ON
DATA

ENT KEY ON



7-5. ORP ZERO

G(M) R

CAL KEY 1 ON . AUTO LAMP가 , CAL LAMP가

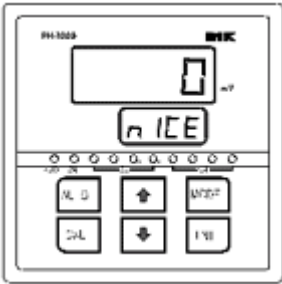
ZERO CAL SPAN CAL

ZERO





가 ENT KEY ON . ICE 가



7-6. ORP

ORP

()ORP ORP

500MΩ ORP

10 ~ 30

(ORP)가

-----260mV±20mV

a) # 1000 sand paper 가

b) (1:1)

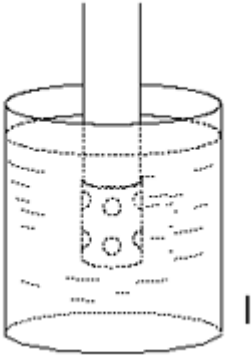
±20mV 가

ORP SPAN

ORP

7-7. ORP SPAN

ORP



CAL KEY 1 ON

AUTO LAMP가 , CAL LAMP가

ZERO CAL SPAN CAL

SPAN

SCAL



가
가

ENT KEY ON
COPY



UP, DOWN KEY ORP

ENT KEY ON

n ICE가

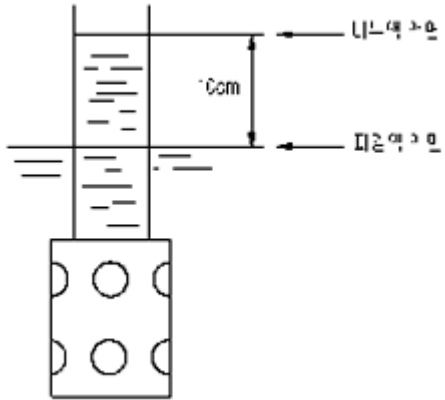


8.

1 1

8-1.

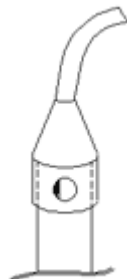
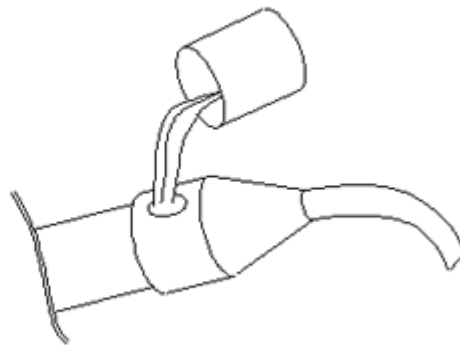
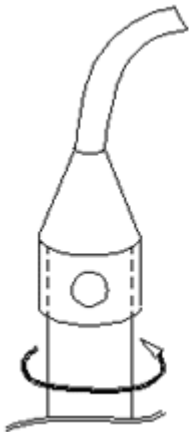
10cm



8-2.

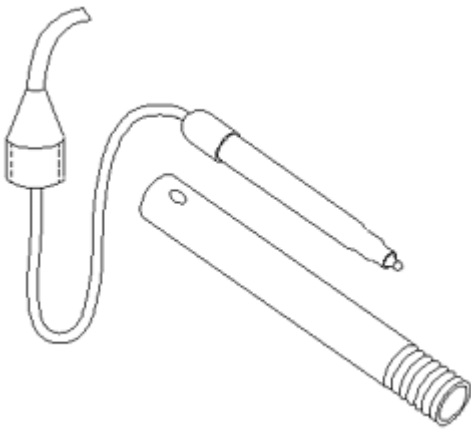
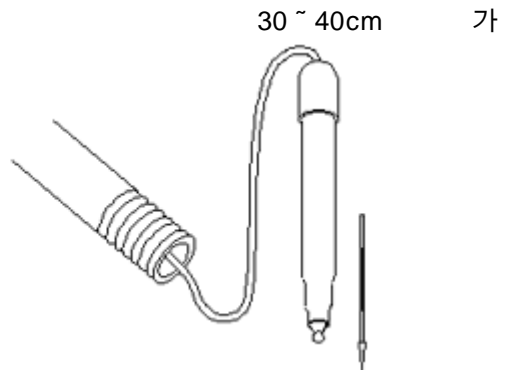
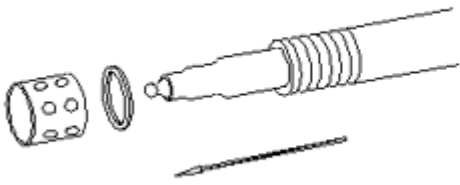
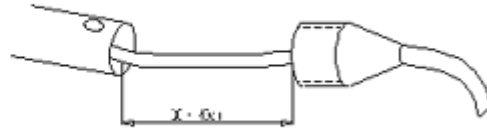
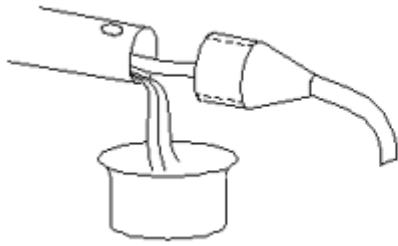
가

가 1m
500ml가

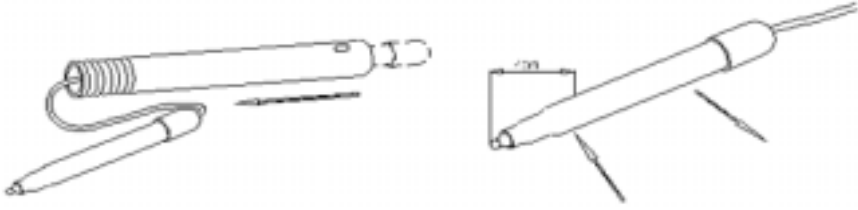


9.

9-1.



9-2.

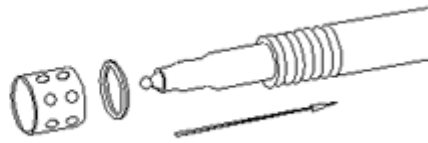


()

가



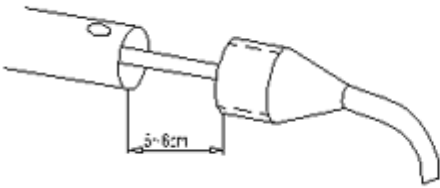
5cm



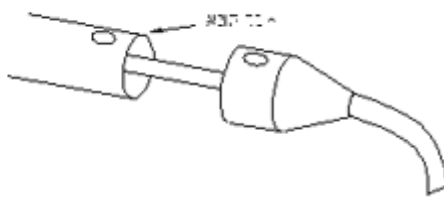
()

or

()

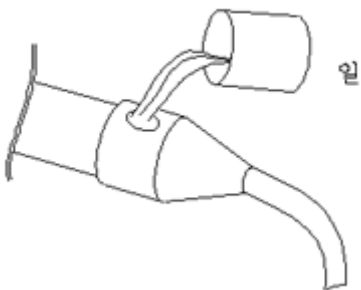


가 5~6cm가



)

가



일

가)

가

1m

500M

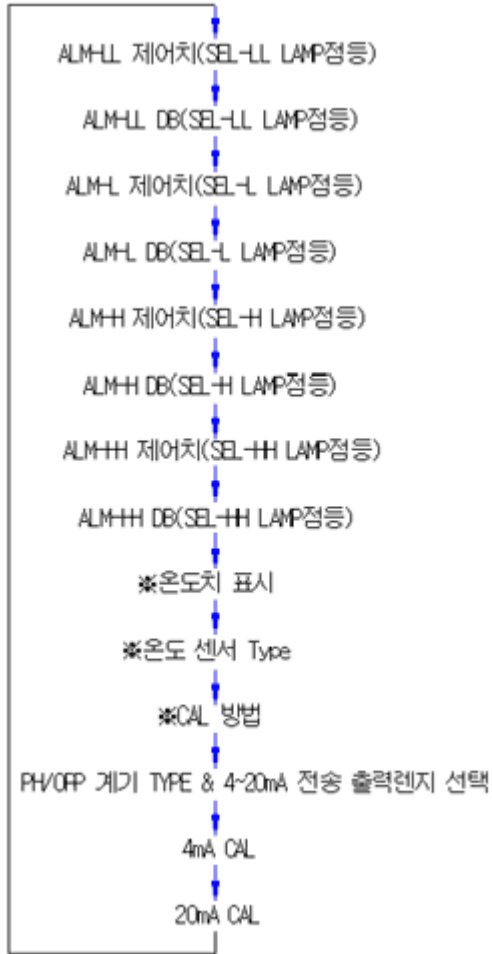
10.

ALM-LL ~ HH, ,

ALM-LL ~ HH

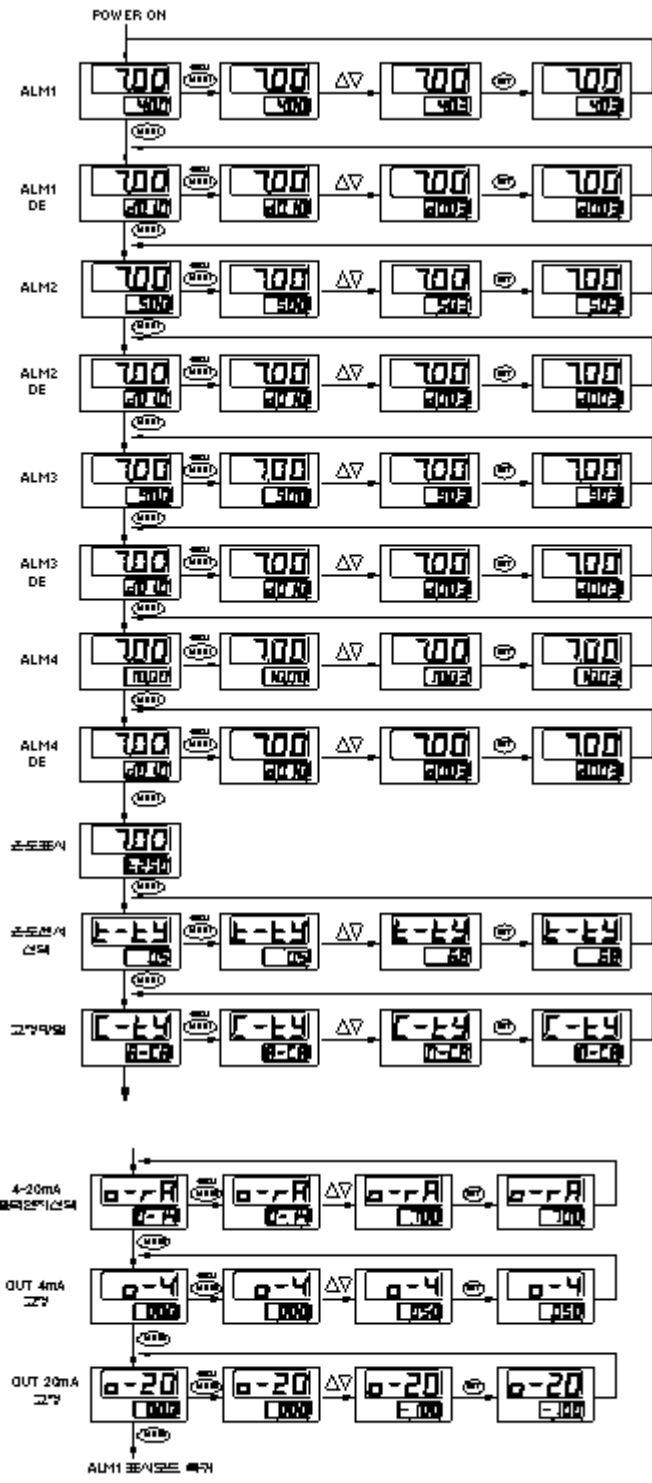
SEL-LL ~ HH LAMP가

(MODE .)



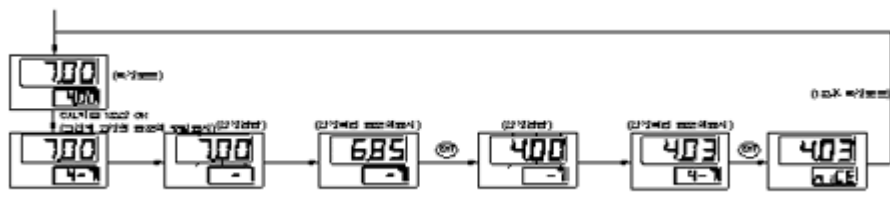
ORP

10-1.



10-2.

10-2-1. PH



10-2-2. PH



10-5. Type

Type

500Ω ----- E-05
 6.8kΩ ----- E-6.8

10-6. CAL

pH

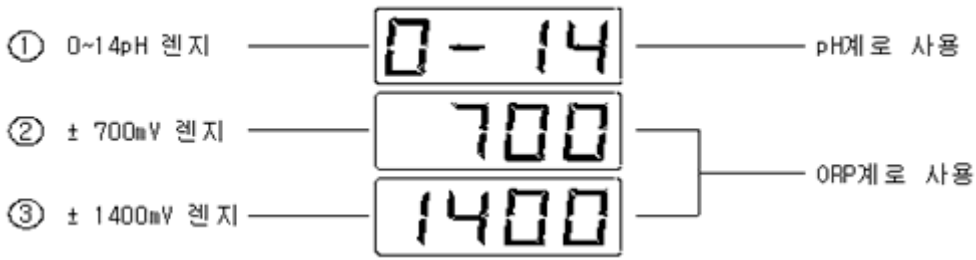
----- A-CA
 ----- A-CA

10-7. PH/ORP &

PH

ORP

4 ~ 20mA



PH

0 ~ 14PH 4 ~ 20mA

ORP

4 ~ 20mA -700 ~ +700mV

ORP

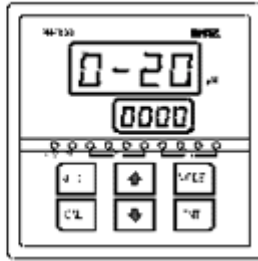
4 ~ 20mA -1400 ~ +1400mV

10-8. 4mA/20mA CAL

4 ~ 20mA

Factor Zero

Factor 가 가 가
 가 ENT KEY ON



10-9.

MODE KEY ON

MODE KEY 1 ON

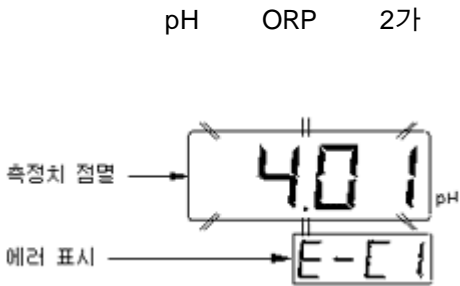
가 KEY 가

KEY . 1 ON 1 UP, DOWN

ENT KEY ON

11. ERROR CODE

11-1. PH/ORP



Error Code

E - oF	Full Scale Over	pH	가	pH15.0(ORP : +1501mV)
E - uF	Full Scale Under	pH	가	pH - 1.0(ORP : - 1501mV)
E - C1			pH	가
E - C2		pH,ORP		가
E - C3				
E - t1			가	
E - t2			가	
E - t3	Full Scale Over		가	110
E - t4	Full Scale Under		가	- 10
E - S1				
E - S2		A/D		

- () 1. ORP
- 2. E - S1, E - S2가

11-2.

가

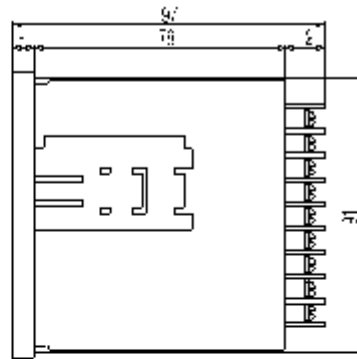
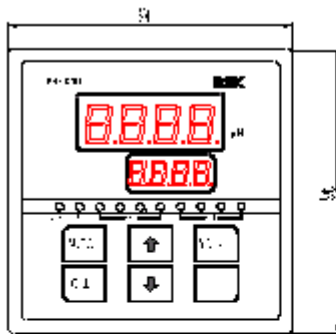
Error Code	가		
E - oF	sample	sample	
E - uF	?		
Full Scale Over		OK?	Box
Full Scale Under	BOX	OK?	가
E - C1	GLASS	?	
		?	
		OK?	
		OK?	
		?	

		?		
	GLASS			
E-C2		?		
	pH		?	
	pH4,7,9	?		
	pH4, 7, 9	?		
E-C3		pH	2pH	
	ORP SPAN		?	ORP SPAN
	00mV	?		SPAN
	T.T	OK?		가
	500Ω:0 ~ 100	450 ~ 650Ω		
E-t1				
	6.8kΩ:0 ~ 100	6 ~ 9kΩ		
			T.T	OPEN
		OK?		
E-t2	T.T	OK?	E-t1	
			T.T	
		OK?		
E-t3		OK?		
	110	?		
Full Scale Over	T.T	OK?	E-t1	
E-t4		OK?		
Full Scale	-10	?		
Under	T.T	OK?	E-t1	

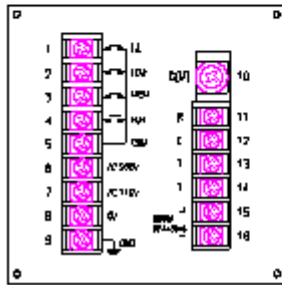
12.

12-1. pH-1000

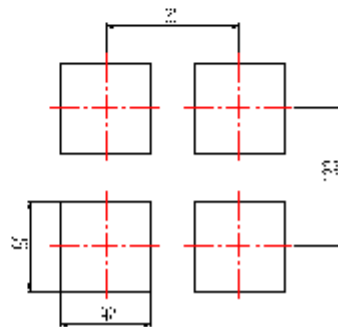
- DIMENSIONS



- TERMINAL BOARD



- PANEL CUT SIZE



12-2. BOX DB-100

12-3. HOLDER +

DH-100

GR-1

