

취급설명서

Conductivity meter

α lpha-con1000



SECHANG INSTRUMENTS

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1.

1.1

Eutech μ S ms

*

*10 (Appendix 2)

*

*Pt100 Pt1000 (Automatic Temperature Compensate)
(ATC)

*

* 1°C 0.00% ~ 10.00% Pure water
25 ° C

* 0 ~ 1999

* 上/下 (set point) -

* : limit, (Proportional Pulse Length),
(Proportional Pulse Frequency)

* ,

LCD

* (contacts),

* Pt100/Pt1000

, ATC

* (HOLD) - (0/4....20mA) ,

*LED

* - 0/4 ~ 20mA

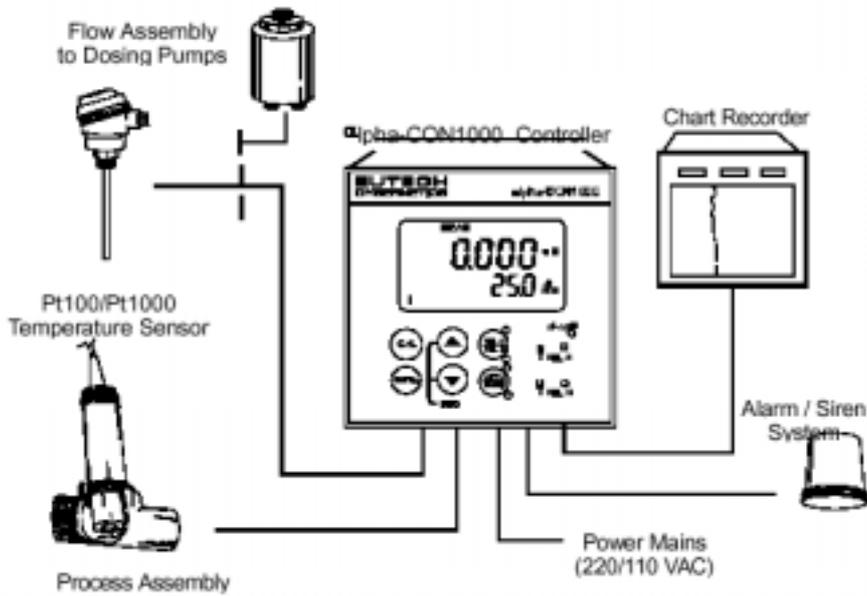
1.2

水 , (脱鹽),

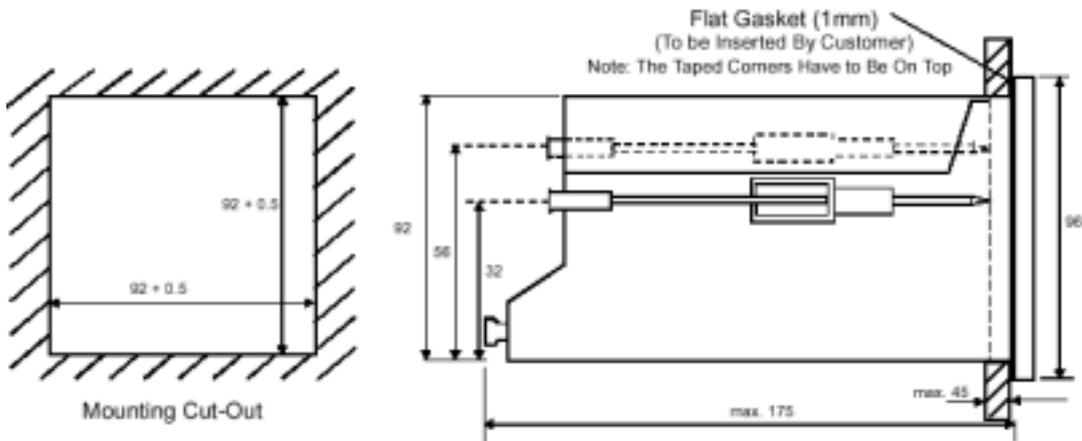
2.

2.1

- * (alpha-CON1000)
- * Pt1000 Pt100 가
- * assembly
- * , ,

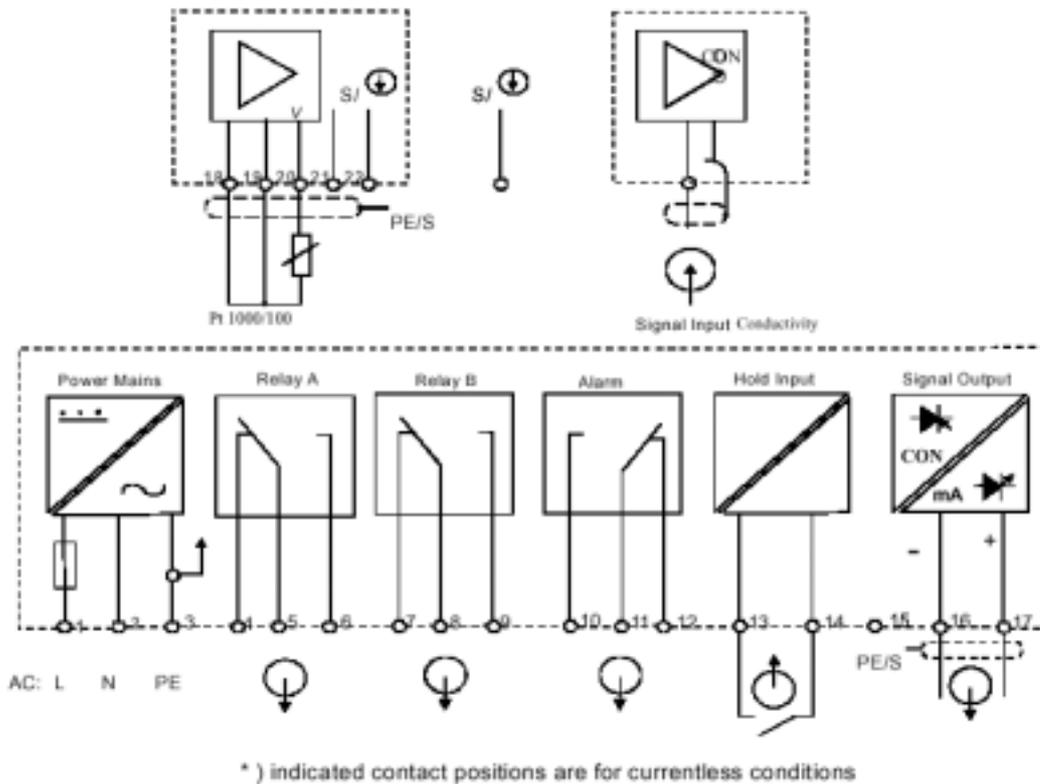


2.2



3.

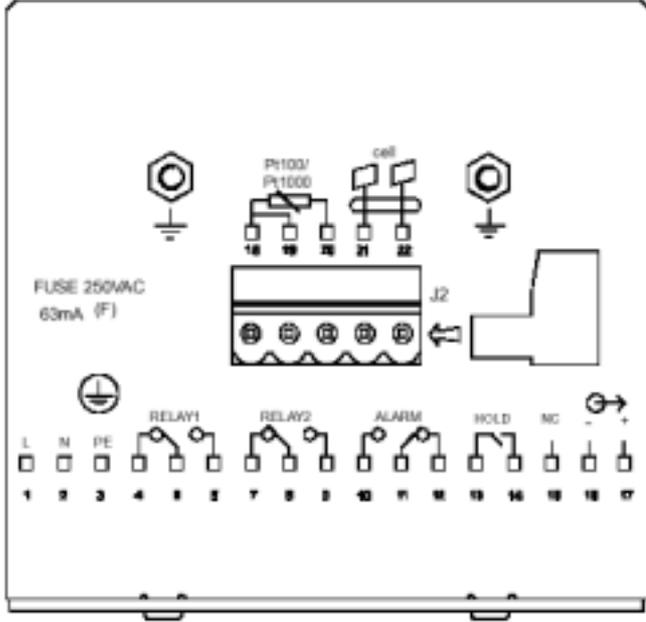
3.1



<p>1. AC (Live) 2. AC (Neutral) 3. AC (Protection Earth)</p> <p>4. Low set relay resting position (NC) 5. Low set relay common 6. Low set relay working position (NO)</p> <p>7. High set relay resting position (NC) 8. High set relay common 9. High set relay working position(NO)</p>	<p>10. Alarm relay resting position (NO) 11. Alarm relay common 12. Alarm relay working position (NC)</p> <p>13. Hold function switch terminal 1 14. Hold function switch terminal 2</p> <p>15. No connection 16. 0/4 - 20 mA for -ve connection 17. 0/4 - 20 mA for +ve connection</p>
<p>5 가</p> <p>18. Pt1000/Pt100 lead 1 terminal -----Green 19. Pt1000/Pt100 sense lead terminal -----Short 18 & 19 20. Pt1000/Pt100 lead 2 terminal -----Red 21. Conductivity lead 1 -----White 22. Conductivity lead 2 -----Black (Clearness)</p>	

3.2

가 . 17
 PCB 가 , 5 가 .
 17 . ()



: "Active Low"

가 OFF 가
 가

"(NC)"

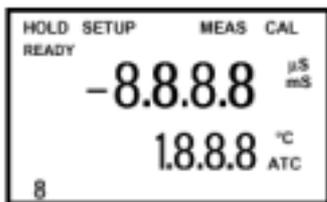
4.

4.1

4.1.1



4.1.2



HOLD;
SETUP;
MEAS;
CAL;
READY;
ATC;

Position

ATC가
Range No;

, ATC



A/B

(LED)

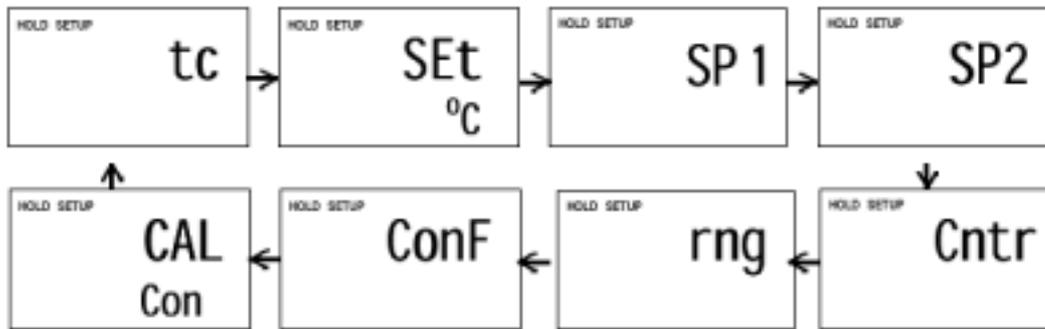
(LED)

4.2

가

:

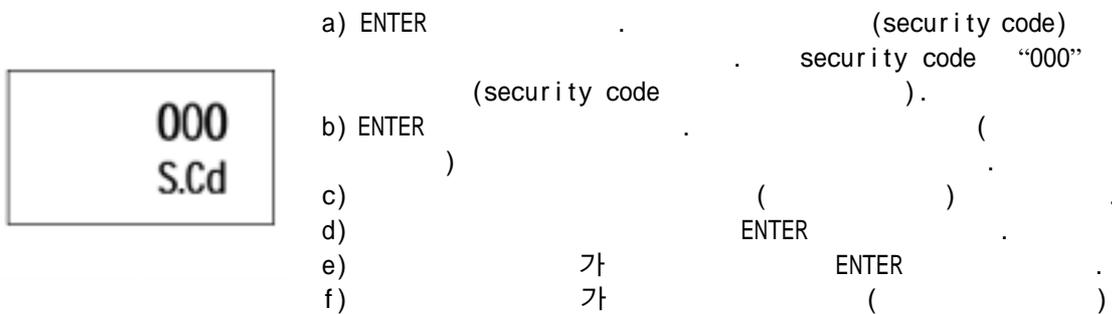
- 1) : Temperature Coefficient settings (+C)
- 2) / :Temperature Measurement/ compensation settings(SE+ C)
- 3) 1 ; Control Relay 1 Configuration (SP1)
- 4) 2 : Control Relay 2 Configuration (SP2)
- 5) ; Control Type (Cntr)
- 6) ; Current output (rng)
- 7) : Configuration (Conf)
- 8) : Calibration (CAL d0)



(security code)

5.2

4.2.1

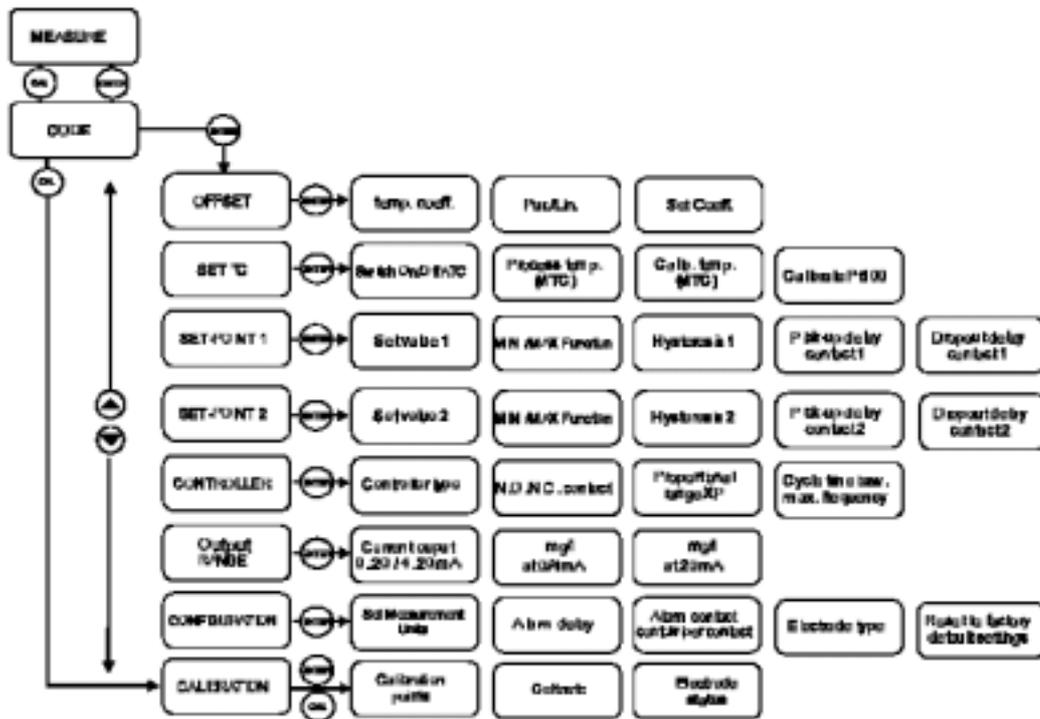


Note:

가

가

4.3



2

(1)

, (2)

SETUP

Note : 가

Note : 가 , 30



“000” ENTER

2) “11” (▲/▼)

3) ENTER “CAL CON”

4) ENTER

5) 6 가 (▲/▼)

Note ; SETUP (), 가

5.2.1.1 (Calibration security code)

가 “11” “000”
가

5.2.2 (Setup mode) /

1) ENTER “000”

가 “S.Cd”

2) “22” (▲/▼)

Note : “22” ENTER

3) ENTER

4) “tc”

5) 7

가 (▲/▼)

Note : 가 , 가 “000”

ENTER

5.2.2.1

가 , “22”가

ENTER

1) ENTER

2) “11” “22”가 ENTER

Note : “11” “22”

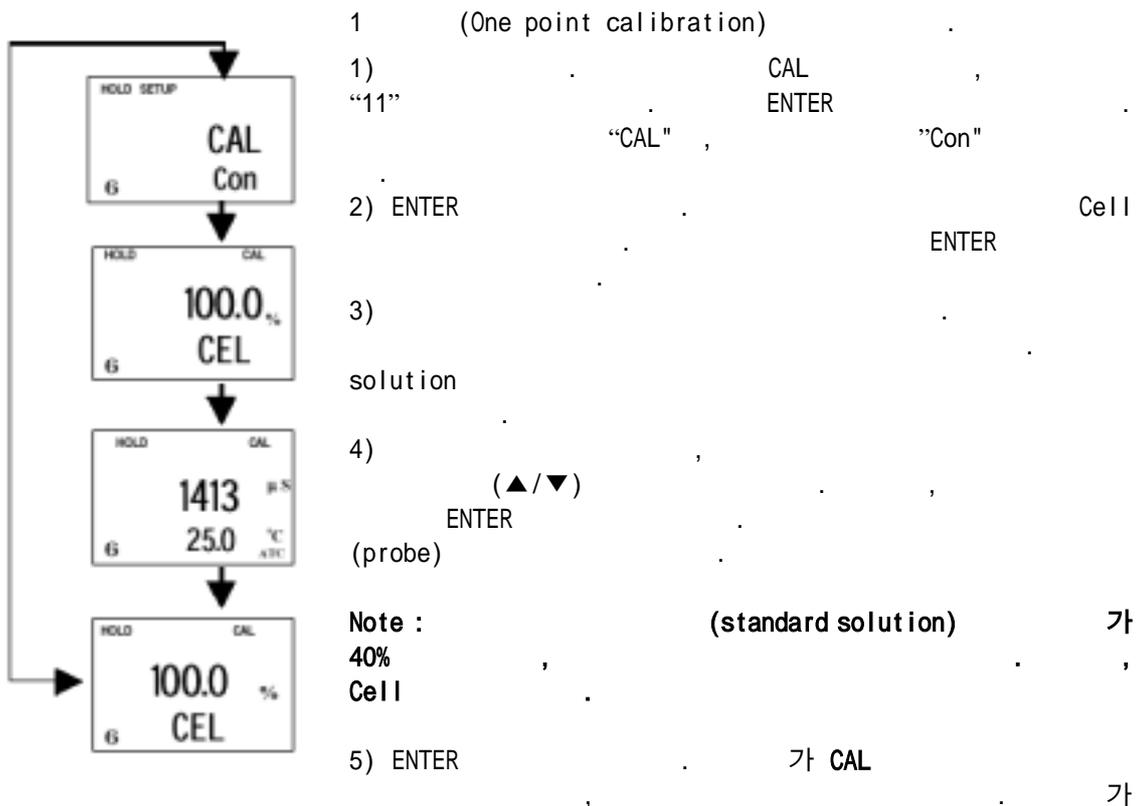
가 “HOLD”

“HOLD”가 가 “HOLD”가

6.

CAL (calibration security code)

6.1



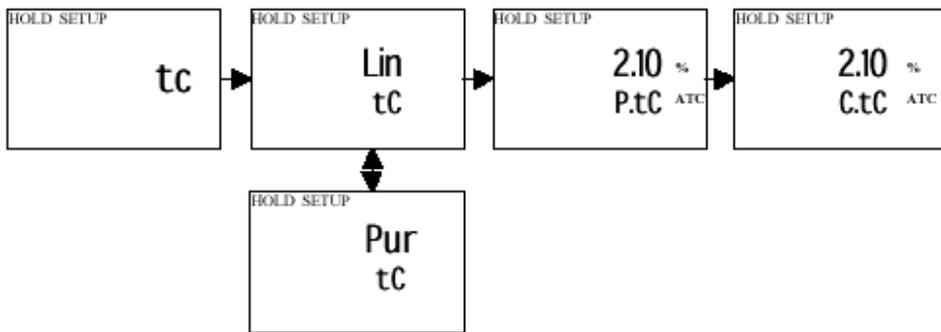
Note : (error)가 "ERR" 가 (▲/▼) 1

Note : (process) 7.4.3 .)

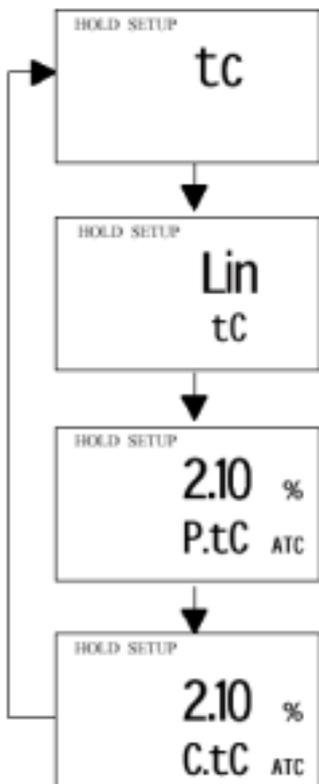
7. (Advanced set-up mode)

7.1

pure water ultr-pure water , "Pur"
 , "Lin"
 . (2.10% .)

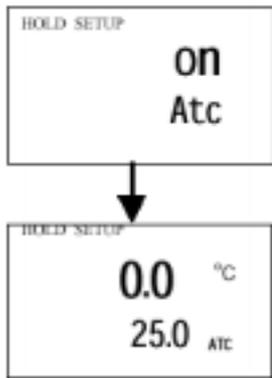


7.1.1 Pure water/ Linear



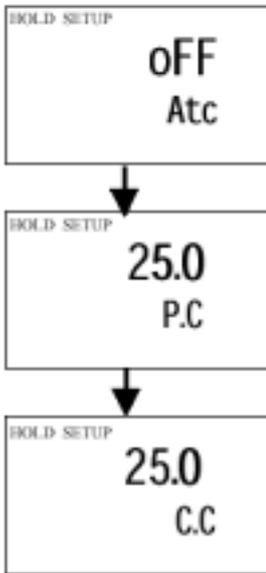
- 1) . ENTER
 (advanced set-up security code) "22"
 . ENTER
 "Lin"
- 2) "Pur" "Lin"
 (▲/▼) . "Pur" tC 가 , ENTER
 "tC" 가 "Lin" tC
- 3) , ENTER , 3
 "2.10%"가 .
 "P.tC"가 . 0%~10%
- 2.10% . (▲/
 ▼)
- 4) ENTER . (0~ 10%)
 2.10%
- 5) . (▲/▼)
- 6) . ENTER
- 7) . (▲/▼)

7.2 (- ATC mode only)



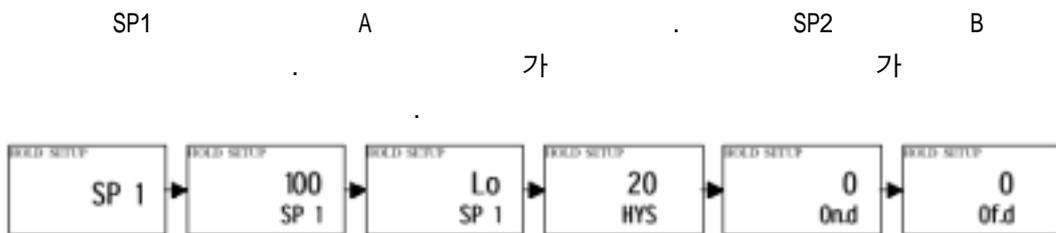
- 1) 7.4.1 "ATC on"
- 2) ENTER (offset)
- 3)
- 4) (▲/▼)
- 5) ±5 °C
- 6) ENTER (▲/▼)

7.2.1 (compensation)



- Note : 가 ATC
- : , 25 °C 25 °C
- 1) 7.4.1 "ATC off"
 - 2) ENTER 가
 - 3) "P. °C"가 (▲/▼)
 - 4) -9.9°C ~ 125°C ENTER 가 "C. °C" -9.9°C ~ 125°C
 - 5) (▲/▼)
 - 6) ENTER
 - 7) (▲/▼)

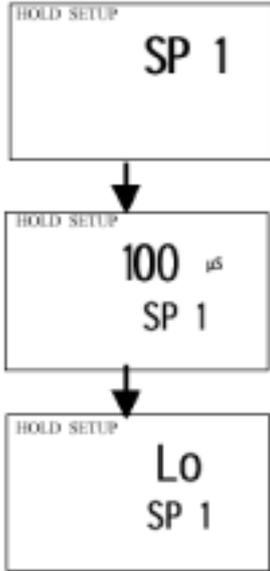
7.3 Control Relay A / Control Relay B (SP1/SP2)



7.3.1 1(2)(set point1, set point2)

1) ENTER "22"
ENTER

2) SP1(SP2) (▲/▼)



7.3.2

가 (activate)
(: SP1=6.20mg/l ; SP2=4.00mg/l)

1) (control relay mode)

7.5.1

2) ENTER

3) 1(2) (▲/▼) 가

(activate)

4) ENTER

5) 7.5.3 (▲/▼)

7.3.3

(Choosing High or Low set

points)

(low set point)
(controller) (low set point) ;

(high set point)
(high set point) . SP1 SP2 ,
lo/lo, lo/hi, hi/lo, hi/hi (set points) . (:
SP1=Lo; SP2=Lo)

1) (Control Relay Mode) 가 7.5.2

2) ENTER Lo Hi (low or high set point)가
SP1(SP2)가 (▲/▼)

3) SP1(SP2), (low or high set point) (▲/▼)

4) 7.5.4 (▲/▼)

7.3.4

(hysteresis (dead band))

(0.1~1.0 mg/l,

1~10%)



1(Lo) 6.00 μ s
 0.05 μ s
 (low set point)
 6.00 μ s (device)
 6.00 μ s
 OFF가 가 가
 6.50 μ s

- 1) (control relay mode) 가 7.5.3
- 2) ENTER (Dead band)



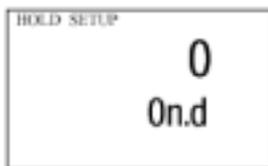
“HYS”가 (▲/▼)
 3) 1(2), 가
 (▲/▼)
 Note : SP1 SP2
 4) ENTER
 5) 7.5.5 (▲/▼)

Note : Appendix 3

7.3.5 Setting an on-delay time lag

(ON) 0~1999

- 1) (control relay mode) 가 7.5.4
- 2) ENTER “0”



“On.d”가 (▲/▼)
 3) 1 2[Set point 1(set point 2)] (on-delay 가
 time) (▲/▼)
 (0 ~1999) (ON)
 4) ENTER
 5) 7.5.6 (▲/▼)

7.3.6 Setting an off-delay time lag

가 (OFF)

0~1999

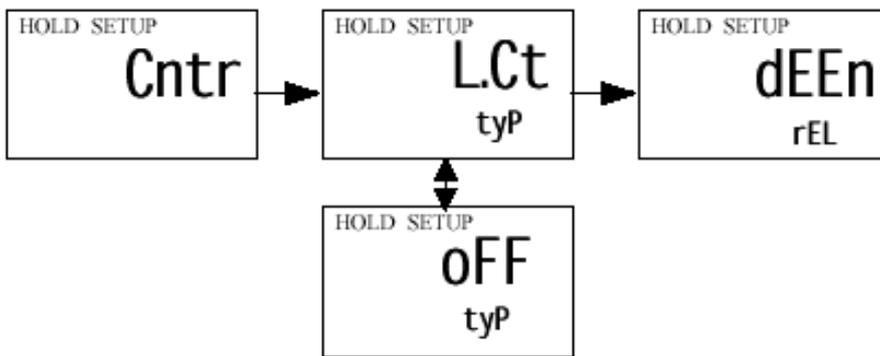
- 1) (Control Relay mode) 가 7.5.5
- 2) ENTER “0” “OFF.d”가
 (▲/▼)
- 3) Set point1(set point 2) (on-delay time) 가
 (0 ~1999) (OFF)
- 4) ENTER

5) (▲/▼)

7.4 (Controller (Cntr) sub-function)

7.4.1

- 1) 가 . ENTER
- “22” . ENTER
- 2) (▲/▼) “Cntr”



7.4.2 (Choosing the controller type (limit or monitor))

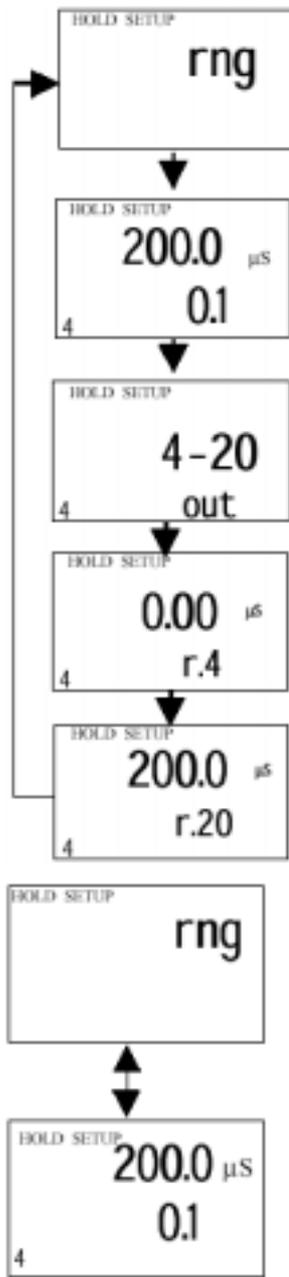
가 : limit control or control off. - controll off

- 1) Controller mode 7.6.1
- 2) ENTER
- “tyP”가
- 3) (▲/▼)
- LCt =limit value pickup(on/off control)
- oFF =controller off
- 4) ENTER
- 5) 7.6.3 , (▲/▼)

7.4.3 Choosing break/make contact relay type

Note : OFF , 7.5.3 , 7.5.4 , 7.5.5 , 7.5.6

가 가 (relay-state)
 . - dEEN (de-energised) EN (energised).



- 1)
- 2) ENTER
- 3)
- 4)
- 5)

7.5

7.5.1

- 1) ENTER
- 2) "22" ENTER
- 3) ENTER
- 4) ENTER
- 5) (▲/▼)

7.6 sub-function)

가 / 20%

7.6.1

- 1) 가 ENTER
- 2) "22" ENTER
- 3) "rng"가 (▲/▼)
- sub-function)

7.6.2

가 0-20mA 4-20mA

7.6.2

"rEL" de-energised = dEEN

energised = EN)

(de-energised or energised)

(▲/▼)

ENTER

(▲/▼)

가 ENTER ENTER

"rng"가 (▲/▼)

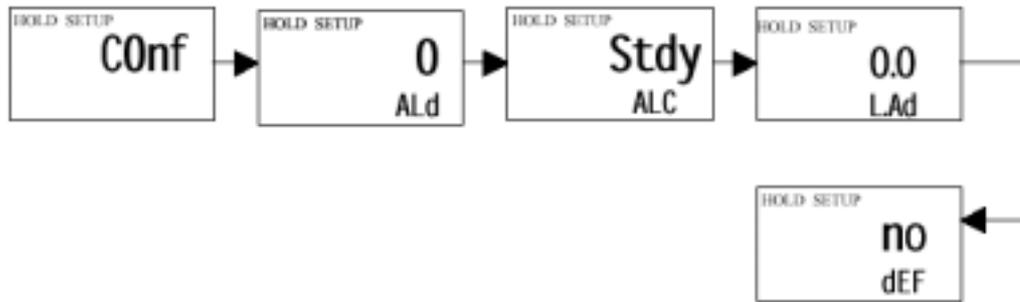
constant) LCD (Cell

(▲/▼)

Appendix2)

7.8

(Current Output (mg)



- 1) Current Output mode 가 7.8.1
- 2) ENTER (0-20 4-20)
- 3) "out" (▲/▼)
- 4) ENTER (0-20 4-20mA) (▲/▼)
- 5) 7.8.3 (▲/▼)

7.6.3 0(4)mA

- (transmitter) 0(4)mA 가 7.8.2
- (Current Output mode)
- 1) ENTER , "r.0(4)"가
 - 2) 0(4)mA (▲/▼) (0.00)
 - 80.0% F.S.; Default is 0% F.S.).
 - 3) ENTER
 - 4) 가 ENTER (▲/▼)

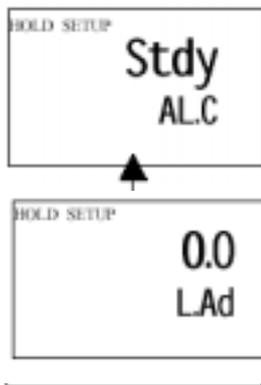
7.6.4 20mA

- 20mA가
- 5) Current Output mode 가 7.8.3
 - 6) ENTER , "r.20"
 - 7) 20mA (▲/▼) (20.0)
 - 100.0% F.S.; Default is 100% F.S.).
 - 8) ENTER
 - 9) 가 ENTER (▲/▼)

7.7 (Configuration (ConF) sub-function)

가

7.7.1



1) 가 . ENTER
"22"

ENTER

2) "ConF"가 (▲/▼)

7.7.2 Selecting the alarm time lag

가 , 가 (a
period of time)

1) 가 7.9.1

2) ENTER ()

"ALd"가 (▲/▼)

(▲/▼)

3)

4) ENTER

5) 7.9.3 (▲/▼)

7.7.3 (steady or pulse contact)

(alarm contact) steady contact fleeting(single pulse) contact,

Pulse contact 25 millisecond

1) 가 7.9.2

2) ENTER "Stdy" "FLEt"가

"ALC"가

- ALC = alarm contact
- Stdy = steady contact
- FLEt = fleeting (single pulse) contact

3) steady contact , pulse contact (▲/▼)

4) ENTER

5) 7.9.4 (▲/▼)

7.7.4 Input Line Resistance Adjust

1) 가 line (compensate for) 7.9.3

2) ENTER "0.0" "LAd"가 (▲/▼)

3) (▲/▼)

4) ENTER

5) 7.9.5 (▲/▼)

7.7.5 (Reverting to factory default settings)

- “no” “Yes” ENTER
- “yes”
- 1) 가 7.9.4
 - 2) ENTER “no” “Yes”가
 - 3) “no” “Yes” (▲/▼) “Yes” ENTER
가 (▲/▼)
 - 4) 가 ENTER
(▲/▼)

7.8 (Calibration (CAL) sub-function)



7.8.1

- 1) 가 ENTER
“22” ENTER
- 2) “CAL”
- 3) 6

8. /

, A/ B
가

8.1 (ON)

- 1) (Rel A/Rel B) A
"SP1"
- 2) 2 B
"SP2"가
- 3) 2

8.2

- 가 A/B ON
OFF
- 1) (auto/maun) "000"
"S.Cd"가
 - 2) "22"가 (▲/▼)
 - 3) ENTER (auto/manu)

Note : "22" ENTER
가

- 4) A/B (Rel A/Rel B)
(A B) (LED)

- 가 Limit control :
"oFF" "on"

- 5) on/off (▲/▼)
(LED)

Note : 가

6) 가

Conductivity Range	Resolution	Default Cell Constant, K	Optional Cell, K
0.000 to 1.999 $\mu\text{S/cm}$	0.001 $\mu\text{S/cm}$	0.01	-
0.00 to 19.99 $\mu\text{S/cm}$	0.01 $\mu\text{S/cm}$	0.01	0.1
0.0 to 199.9 $\mu\text{S/cm}$	0.1 $\mu\text{S/cm}$	0.1	1.0
0 to 1999 $\mu\text{S/cm}$	1 $\mu\text{S/cm}$	1.0	-
0 to 5000 $\mu\text{S/cm}$	5 $\mu\text{S/cm}$	1.0	-
0.00 to 19.99 mS/cm	0.01 mS/cm	1.0	-
0.0 to 199.9 mS/cm	0.1 mS/cm	10.0	1.0
Temperature	0-50 °C (Display: -9.9 to 125 °C)		
Resolution	0.1 °C		
Relative Accuracy	± 0.5 °C		
Sensor	Pt 1000/Pt 100		
Temperature Compensation	Auto / manual (reference at 25.0 °C)		

9. Technical Specifications

Set-point and Controller Functions

Controller characteristics	Limit controller
Pickup / Dropout delay	0 to 1999 sec.
Switching Conductivity hysteresis	0 to 10% of Full Scale
Contact outputs, controller	2 potential-free change-over contacts
Switching voltage	max. 250 VAC
Switching current	max. 3A
Switching power	max. 600 VA

Alarm Functions

Function (switchable)	Latching / pulse
Pickup delay	0 to 1999 sec.
Switching voltage	max. 250 VAC
Switching current	max. 3A
Switching power	max. 600 VA

Electrical Data and Connections

Power Requirements	110 / 220 VAC (jumper selectable)
Frequency	48 to 62 Hz
Signal Output	0/4 to 20 mA, galvanically isolated
Signal Output Load	max. 600 Ω
Connection terminal	Terminal blocks 5-pole / 17-pole, removable
Mains fuse / fine wire fuse	slow-blow 250 V / 100 mA

EMC Specifications

Emissions	According to EN 50081-1
Susceptibility	According to EN 50082-1

Environmental Conditions

Ambient temp. operating range	0 to 50 °C
Relative humidity	10 to 95%, non-condensing

Mechanical Specifications

Dimensions (control panel housing - L x H x W)	175 x 96 x 96 mm
Weights (control panel housing)	max. 0.7 kg
Material	ABS with polycarbonate (front housing)
Insulation (Front / Housing)	IP 54 / IP 65

10. Accessories

Assembly Accessories

Product Description	Code no.
Conductivity Cell, up to 20 μ S; Cell constant, K=0.01 with integrated Pt 100, Material SS316 and 25ft cable (open-ended)	EC-CS10-0-01S
Conductivity Cell, up to 20 μ S; Cell constant, K=0.01 with integrated Pt 100, Material Titanium and 25ft cable (open-ended)	EC-CS10-0-01T
Conductivity Cell, 0.1 - 200 μ S; Cell constant, K=0.1 with integrated Pt 100, Material SS316 and 25ft cable (open-ended)	EC-CS10-0-1S
Conductivity Cell, up to 200 mS; Cell constant, K=1.0 with integrated Pt 100, Material SS316 and 25ft cable (open-ended)	EC-CS10-1-0S

Note ; 6 (6 bar)

11. General Information

11.1

Eutech Instruments 1 .
가 , ,
().
. Eutech Instruments
,

11.2

, ,
.
* 17 , 5 (1unit)
* side threaded rod with catch (2 units)
* receptacle cable lug (1 unit)
* rubber gasket (1 unit)

11.3 Return of Goods

Eutech

11.4

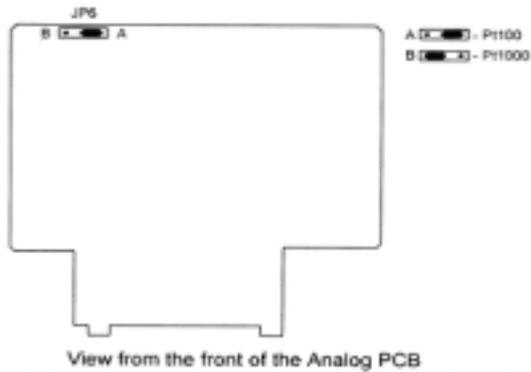
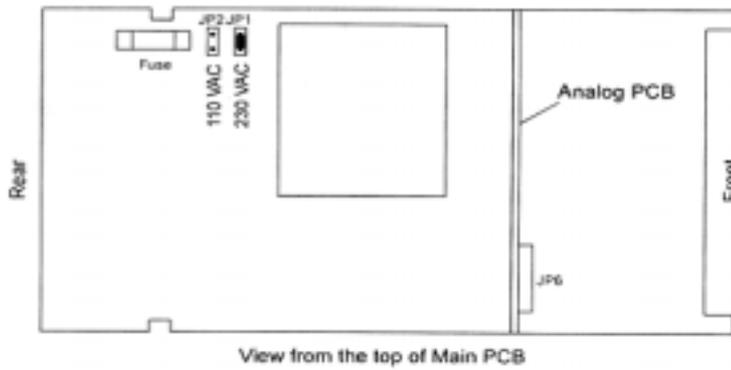
가

12. Appendices

JP1	220VAC
JP2	110VAC
JP6	Pt100 Pt1000 (jumper) Position A Position B
Fuse	(slow-blow 100mA)가

12.1 Appendix 1 - Jumper Positions

(Jumper)



12.2 Appendix 2 - Measurement Ranges available in the Controller

Range No.	Range	Resolution	Default cell K
1	0.000 – 1.999 μ S	0.001 μ S	0.01
2	0.00 – 19.99 μ S	0.01 μ S	0.01
3	0.00 – 19.99 μ S	0.01 μ S	0.1
4	0.0 – 199.9 μ S	0.1 μ S	0.1
5	0.0 – 199.9 μ S	0.1 μ S	1.0
6	0 – 1999 μ S	1 μ S	1.0
7	0 – 5000 μ S	5 μ S	1.0
8	0.00 – 19.99 mS	0.01 mS	1.0
9	0.0 – 199.9 mS	0.1 mS	10.0
0	0.0 – 199.9 mS	0.1 mS	1.0

NH ₃ (15°C)	0.10	2.51	2.46
	1.60	8.67	2.38
	4.01	10.95	2.50
	8.03	10.38	2.62
	16.15	6.32	3.01
	30.5	1.93	-
HF	1.5	198	7.20
	4.8	593	6.66
	24.5	2832	5.83
HNO ₃	6.2	3123	1.47
	12.4	5418	1.42
	31.0	7819	1.39
	49.6	6341	1.57
	62.0	4964	1.57

12.3 Appendix 3-Conductivity at Related Temperature Coefficients (25 °C)

Substance	Concentration wt %	Conductivity 10 ⁻⁴ S/cm	Conductivity Coefficient
NaOH	5	1969	2.01
	10	3124	2.17
	15	3463	2.49
	20	3270	2.99
	30	2022	4.50
	40	1164	6.48
KOH (15°C)	25.2	5403	2.09
	29.4	5434	2.21
	33.6	5221	2.36
	42.0	4212	2.83

Substance	Concentration wt %	Conductivity 10^{-4} S/cm	Conductivity Coefficient
H ₃ PO ₄ (15°C)	10	566	1.04
	20	1129	1.14
	40	2070	1.50
	45	2087	1.61
	50	2073	1.74
NaCl	5	672	2.17
	10	1211	2.14
	15	1642	2.12
	20	1957	2.16
	25	2153	2.27
Na ₂ SO ₄	5	409	2.36
	10	687	2.49
	15	886	2.56
HCl	5	1969	1.58
	10	3124	1.56
	20	3463	1.54
	30	662	1.52
	40	5152	-

CuSO ₄	5	109	2.13
	10	189	2.16
	20	320	2.18
	30	421	2.31
CH ₃ COOH	1	5.84	-
	10	15.26	1.69
	15	16.19	1.74
	20	16.05	1.79
	30	14.01	1.86
	40	10.81	1.95
Na ₂ CO ₃	5	456	2.52
	10	705	2.71
	15	836	2.94

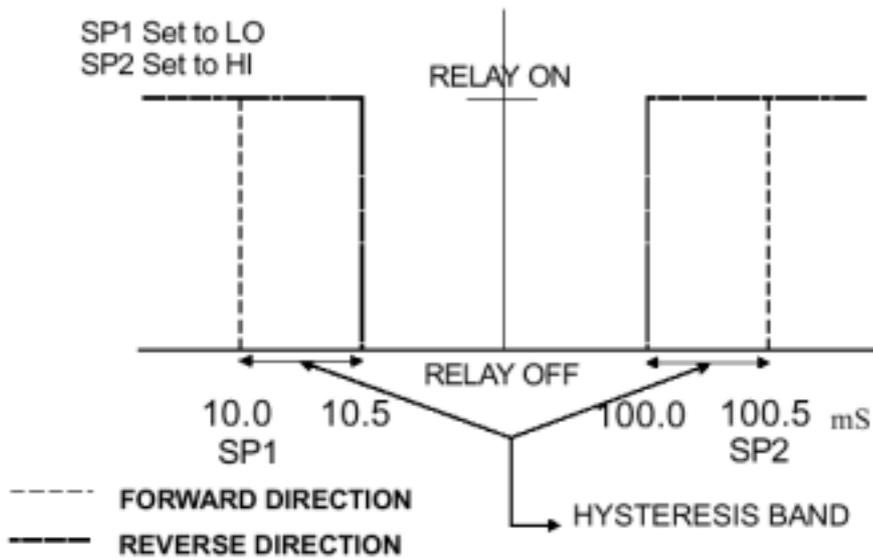
Na ₂ CO ₃	5	456	2.52
	10	705	2.71
	15	836	2.94
KCl	5	690	2.01
	10	1359	1.88
	15	2020	1.79
	20	2677	1.68

	25	2810	1.66
Substance	Concentration wt %	Conductivity 10^{-4} S/cm	Conductivity Coefficient
KBr (15°C)	5	465	2.06
	10	928	1.94
	20	1907	1.77
KCN (15°C)	3.25	507	2.07
	6.5	1026	1.93
NH ₄ Cl	5	918	1.98
	10	1776	1.86
	15	2586	1.71
	20	3365	1.61
	25	4025	1.54
(NH ₄) ₂ SO ₄	5	552	2.15
	10	1010	2.03
	20	1779	1.93
	30	2292	1.91

12.4 Appendix 4 - Conductivity of Various Aqueous Solutions at 25 °C

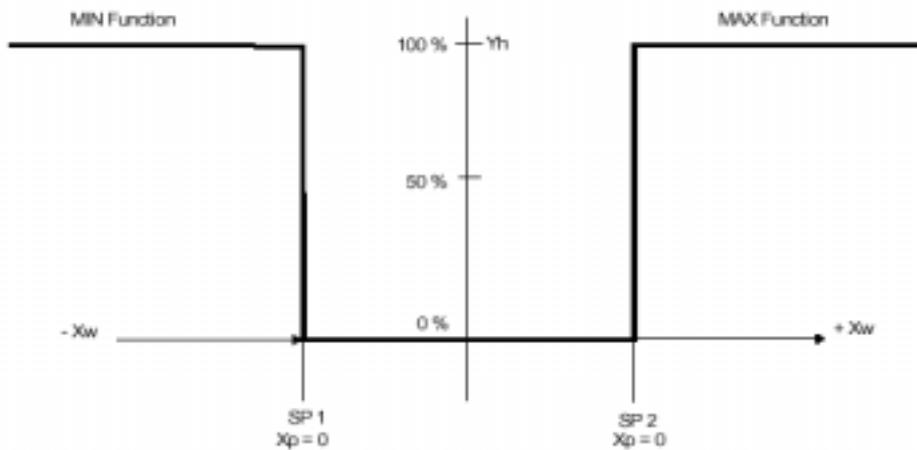
	Conductivity	Resistivity
Pure Water	0.05 uS/cm	18 MΩ-cm
Power Plant Boiler Water	0.05 - 1 uS/cm	1 - 18 MΩ-cm
Distilled Water	0.5 uS/cm	2 MΩ-cm
De-ionized Water	0.1 - 10 uS/cm	0.1 - 10 MΩ-cm
De-mineralised Water	1 - 80 uS/cm	0.01 - 1 MΩ-cm
Mountain Water	10 uS/cm	0.1 MΩ-cm
Drinking Water	0.5 - 1 mS/cm	1 - 2 MΩ-cm
Waste-water	0.9 - 9 mS/cm	0.1 - 1 MΩ-cm
Potable Water Maximum	1.5 mS/cm	0.7 MΩ-cm
Brackish Water	1 - 80 mS/cm	0.01 - 1 MΩ-cm
Industrial Process Water	7 - 140 mS/cm	rarely stated
Ocean Water	53 mS/cm	rarely stated

12.5 Appendix 5 - Simple Explanation on the Function of Hysteresis



The controller relay activates when the set-point is reached. In the reverse direction, it does not deactivate when the value reaches the set-point. Instead, it continues to be active till the value reaches the amount set by the Hysteresis band.

12.6 Appendix 6 - General instructions Concerning Controller Setting



Control characteristic of P-Controllers as limit value switch

12.7 Conductivity Sensor Instruction Guide

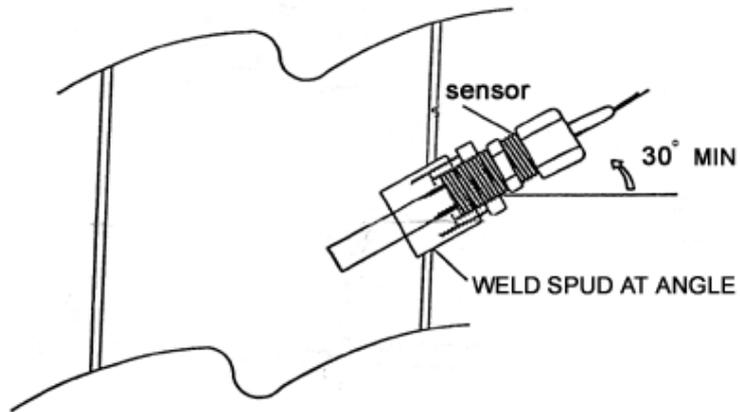
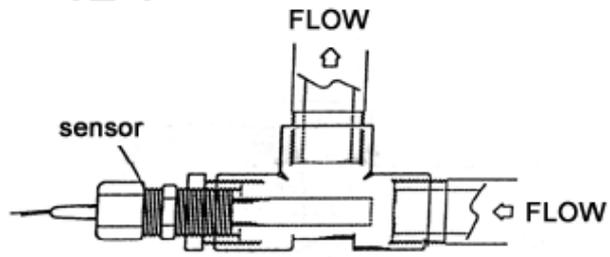
0.01	0.055 - 20 $\mu\text{s/cm}$
0.1	0.5 - 200 $\mu\text{s/cm}$
1.0	0.01 - 2 ms/cm
10.0	1 - 200 ms/cm

12.8

(25 C)

	(Conductivity)	(Resistivity)
(Pure Water)	0.05 $\mu\text{s/cm}$	18 $\text{M}\Omega\text{-cm}$
(Power plant boiler water)	0.05 - 1 $\mu\text{s/cm}$	1 - 18 $\text{M}\Omega\text{-cm}$
(Distilled water)	0.5 $\mu\text{s/cm}$	2 $\text{M}\Omega\text{-cm}$
(Deionised water)	0.1 - 10 $\mu\text{s/cm}$	0.1 - 10 $\text{M}\Omega\text{-cm}$
(Demineralised water)	1 - 80 $\mu\text{s/cm}$	0.01 - 1 $\text{M}\Omega\text{-cm}$
(Mountain water)	10 $\mu\text{s/cm}$	0.1 $\text{M}\Omega\text{-cm}$
(Drinking water)	0.5 - 1 ms/cm	1 - 2 $\text{k}\Omega\text{-cm}$
(Wastewater)	0.9 - 9 ms/cm	0.1 - 1 $\text{k}\Omega\text{-cm}$
KCl (KCl solution (0.01M))	1.4 ms/cm	0.7 $\text{k}\Omega\text{-cm}$
(Portable water maximum)	1.5 ms/cm	0.1 $\text{k}\Omega\text{-cm}$
(Brackish Water)	1 - 80 ms/cm	0.01 - 1 $\text{k}\Omega\text{-cm}$
(Industrial process water)	7 - 140 ms/cm	
(Ocean water)	53 ms/cm	
10% NaOH	355 ms/cm	
31% HNO ₂	865 ms/cm	

전도도 전극설치



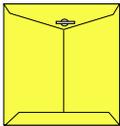
Recomend Instalation

Conductivity meter
CON-1000



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Eutech Instruments.



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TEL : 332-7511 ()

FAX : 332-5912 ()



ID :

e-mail : sechang@sechang.com

Internet Website : <http://www.sechang.com>