



Digital Controller
MESTAR+
▪ pH/ORP ▪ RC ▪ DO ▪ EC



Precise and delicate managements are required to keep pure and sanitary water.



MESTAR⁺ can measure the value of pH, ORP, Residual Chlorine, Dissolved Oxygen and Electrical Conductivity.



It is applicable in a variety of industrial site such as sewage treatment plant and power plant.

- Simple Calibration and Highly Reliable Digital Type Controller.
- Easy installation with DIN(96*96mm) Standar Size Case and High Legibility by 3inch Segmer Display.
- Figure Out the Causes of Error Through Self Diagnostic Function by Data Back-Up.



pH/ORP

Digital pH/ORP Controller



Model Code

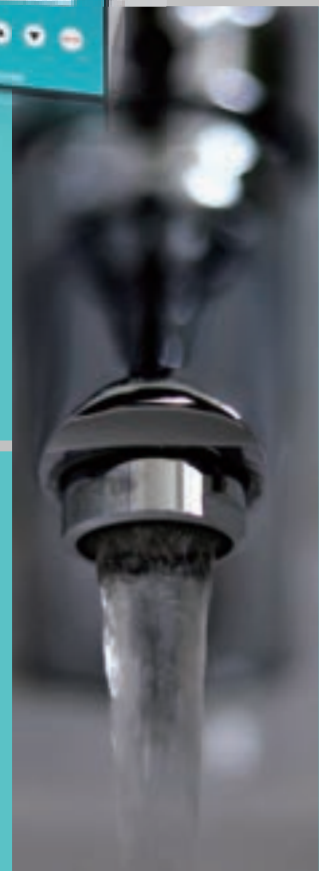
MESTAR+ - ^①P ^② ^③ - ^④

- | | | | |
|-----------------------------------|--|---|--|
| ① Controller
P : pH/ORP | ② Controller Option
B : Standard
T : Temp. Compensation
C : Communication(RS-485)
A : Antimony*
X : Communication + Temp. Compensation | ③ Output Option
0 : Standard
1 : Temp.(4~20mA) | ④ Electrode
1 : CPP 21
3 : CPM 11
4 : CPP 22
6 : CPP 11
7 : CPP 12
8 : CPP 13
9 : CPP 14 |
|-----------------------------------|--|---|--|

※ In the case of the antimony type, the output option and the electrode can not be selected. (MESTAR+ PA0-0)

Specification

- | | |
|------------------------|---|
| Display | 3in. LCD Segment Display (White Back Light) |
| Measuring Range | 0.00~14.00pH / -1999~1999mV / -10.0 ~ 100°C (Option) |
| Resolution | 0.01pH / 1mV / 0.1°C |
| Analog Output | DC 4~20mA 2Channels - pH / ORP Meas. Value, Temp.(Option) |
| Alarm Output | HIGH, LOW Alarm (1a1b) |
| Case | Anti-static ABS |
| Power | AC85~245V, 50/60Hz, Power Consumption 3W |
| Weight | Approx. 450g |



RC

Digital Residual Chlorine Controller



Model Code

MESTAR+ - ^①R ^② ^③ - ^④

- | | | | |
|--|---|--|---------------------------------|
| ① Controller
R : RC
(Residual Chlorine) | ② Controller Option
B : Standard
C : Communication(RS-485) | ③ Output Option
0 : Standard | ④ Electrode
1 : CPR11 |
|--|---|--|---------------------------------|

Specification

- | | |
|------------------------|---|
| Display | 3in. LCD Segment Display (White Back Light) |
| Measuring Range | 0.00~2.00ppm |
| Resolution | 0.01ppm |
| Analog Output | DC 4~20mA 1Channels - ppm Meas. Value |
| Alarm Output | HIGH, LOW Alarm (1a1b) |
| Case | Anti-static ABS |
| Power | AC85~245V, 50/60Hz, Power Consumption 3W |
| Weight | Approx. 450g |

※ MESTAR+ RC shows the reading of Free Residual Chlorine in a solution.



DO

Digital Dissolved Oxygen Controller



Model Code

MESTAR+ - ^①D ^② ^③ - ^④

① Controller

D : DO
(Dissolved Oxygen)

② Controller Option

B : Standard (Temp. Compensation)
C : Communication (RS-485)

③ Output Option

0 : Standard
1 : Temp. (4~20mA)

④ Electrode

1 : CPD11

Specification

Display	3in. LCD Segment Display (White Back Light)
Measuring Range	0.00~20.00mg/L / -10.0 ~ 100℃
Resolution	0.01mg/L / 0.1℃
Analog Output	DC 4~20mA 2Channels - mg/L Meas. Value, Temp. (Option)
Alarm Output	HIGH, LOW Alarm (1a1b)
Case	Anti-static ABS
Power	AC85~245V, 50/60Hz, Power Consumption 3W
Weight	Approx. 450g



EC

Digital Electrical Conductivity Controller



Model Code

MESTAR+ - ^①E ^② ^③ - ^④

① Controller

E : EC
(Electrical Conductivity)

② Controller Option

B : Standard (Temp. Compensation)
C : Communication (RS-485)

③ Output Option

0 : Standard
1 : Temp. (4~20mA)

④ Electrode

1 : CPE11

Specification

Display	3in. LCD Segment Display (White Back Light)
Measuring Range	0.00 ~ 10.00mS/cm
Resolution	0.01mS/cm
Analog Output	DC 4~20mA 2Channels - EC Meas. Value, Temp. (Option)
Alarm Output	HIGH, LOW Alarm (1a1b)
Case	Anti-static ABS
Power	AC85~245V, 50/60Hz, Power Consumption 3W
Weight	Approx. 450g



Electrodes

pH/ORP



RC



DO



EC



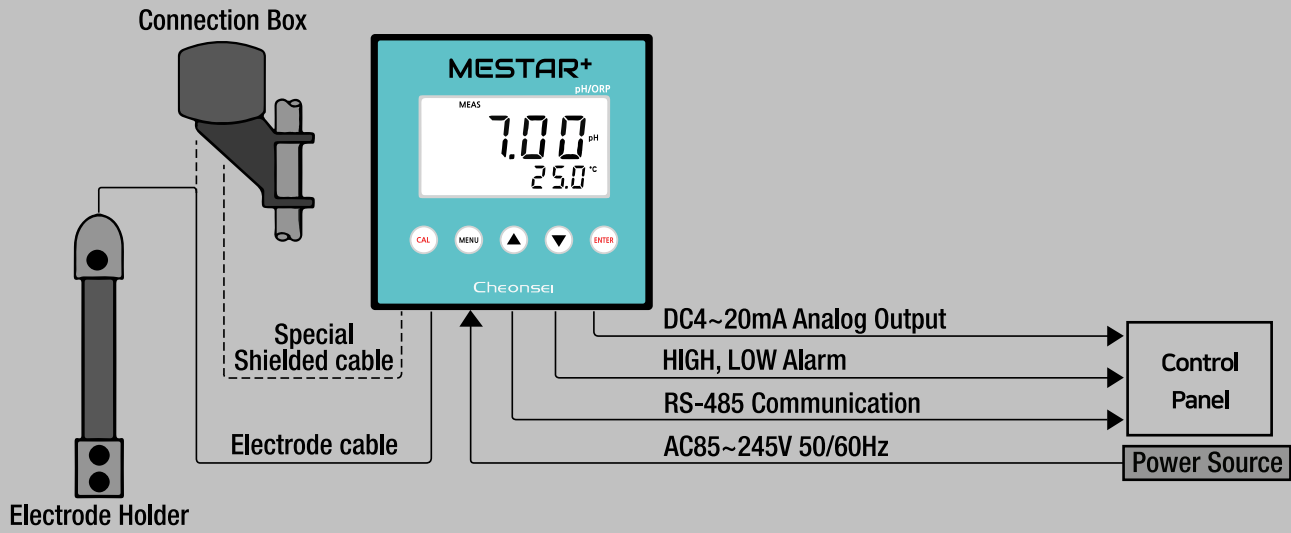
Electrode Specification

Controller	Model	Temp. Compensation	Operating Temperature	Material	Supplement	Method of Measurement	Internal Liquid	Cable Length
pH	CPP21	X	0~80°C	Glass	Required	Glass Sensor	3.3mol KCl	5m
	CPP22	O						
	CPP11	X		PC	Supplement free			
	CPP12	O						
	CPP13	O		Glass	Supplement free			
	CPP14	X						
ORP	CPM11	X				Platinum		
RC	CPR11	X	2~45°C	Glass		Constant Voltage		10m
DO	CPD11	O	0~50°C		Required	Galvanic	0.5mol NaOH	
EC	CPE11	O	0~80°C	ABS	-	2 Pole	-	5m
	CPE12	O						

System Diagram

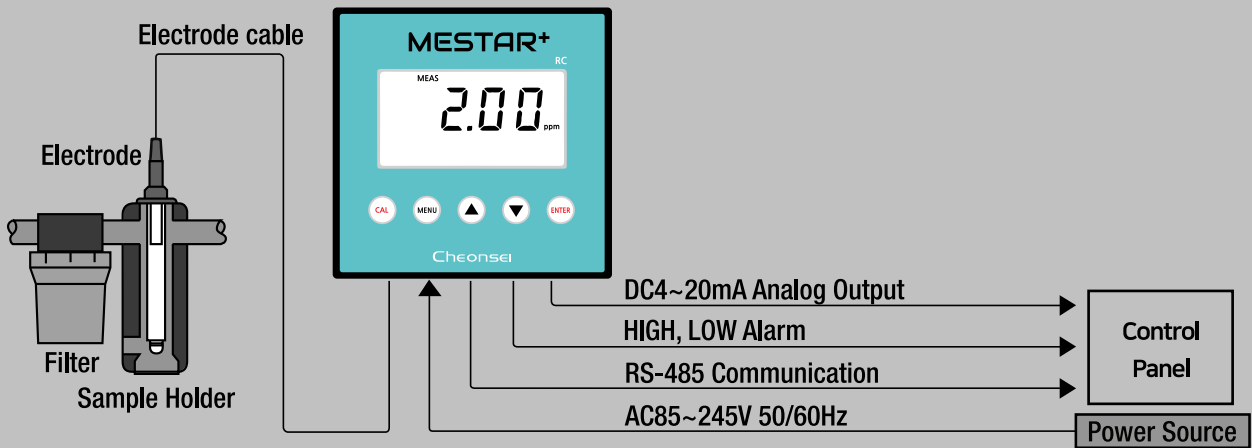
<Electrode Holder Type>

* Applicable model : pH/ORP, DO, EC



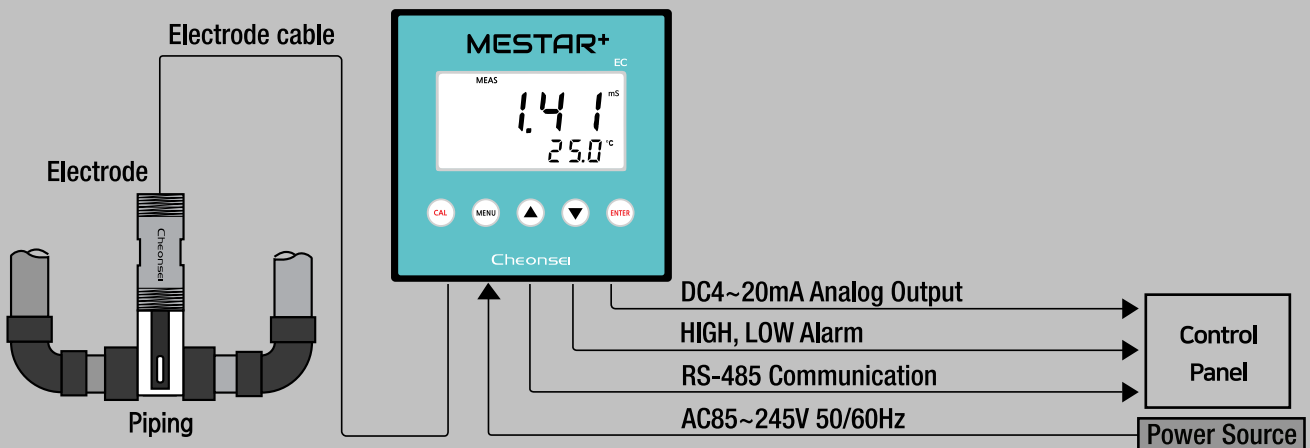
<Sample Holder Type>

* Applicable model : pH/ORP, RC, DO, EC



<Pipe Mounting Type>

* Applicable model : EC



Sets and Components

〈Electrode Holder Type〉



Buffer Powder & Calibration Liquid Bottle



Electrode Holder



Connection Box



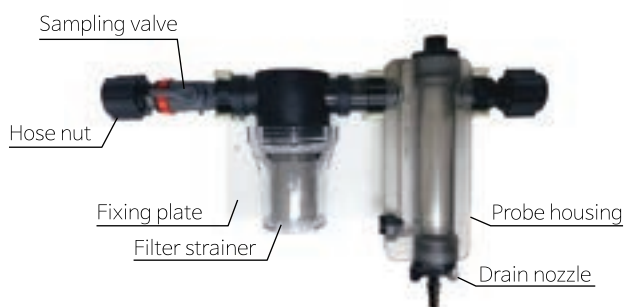
Bracket for Electrode Holder



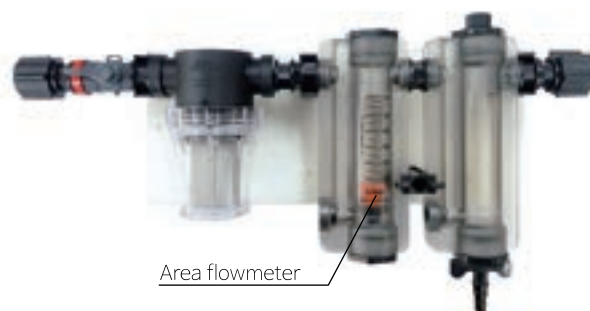
Special Shielded Cable

※ The standard components may vary depending on model.
 ※ All model's specification can be revised for improvement without prior notice.

〈Sample Holder Type〉



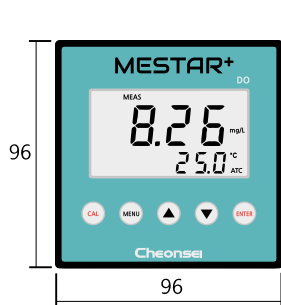
Standard



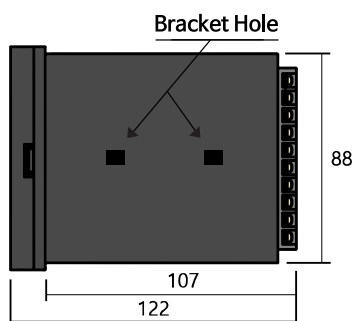
Option

※ Sample Holder can be used with a number of electrodes together by installing additional mounting.
 ※ The hose size for Sample Holder is $\phi 8 \times \phi 12$.
 ※ Please contact sales agent first before using non-standard parts.

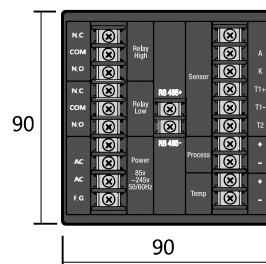
Dimensions



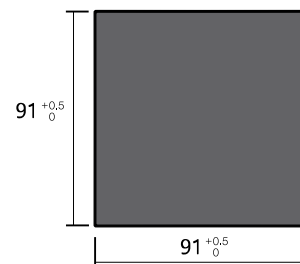
Front View



Side View



Rear View



Panel Cutout

MESTAR⁺