



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, 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) Standard Size Case and High Legibility by 3inch Segment 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)

X : Communication +

Temp. Compensation

③ Output Option

0 : Standard

1 : Temp. (4~20mA)

④ Electrode

1 : GS-5

6 : CPP11

2 : GSH-5

7 : CPP12

3 : MS-5

8 : CPP13

4 : GST-5

9 : CPP14

5 : GSTH-5

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⁺ - ^①**D** ^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 - ppm 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⁺ - ^①**E** ^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
2 : CPE12

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



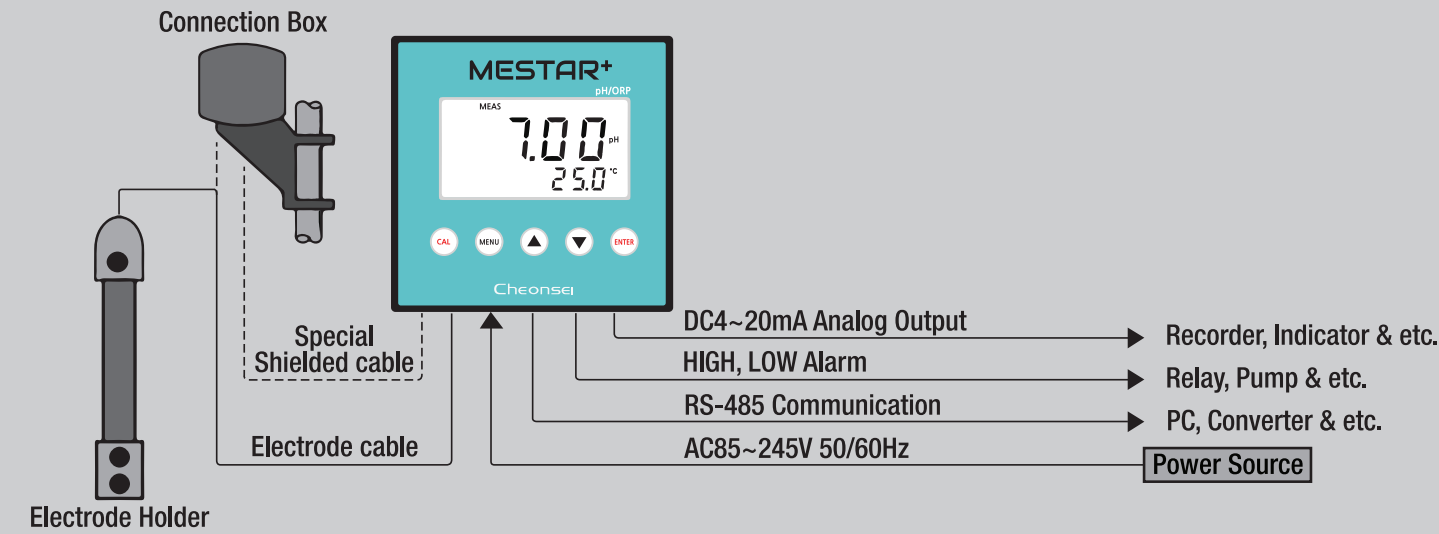
Electrode Specification

Controller	Model	Temp. Compensation	Operating Temperature	Material	Supplement	Method of Measurement	Internal Liquid	Cable Length
pH	GS-5	X	0~40℃	Glass	Required	Glass Sensor	3.3mol KCl	5m
	GSH-5	X	0~80℃					
	GST-5	O	0~40℃					
	GSTH-5	O	0~80℃					
	CPP11	X	0~80℃	PC	Supplement free			
	CPP12	O	0~80℃					
	CPP13	O	0~80℃	Glass				
	CPP14	X	0~80℃	PC				
ORP	MS-5	X	0~40℃	Glass	Required	Gold		
RC	CPR11	X	2~45℃	Glass	Supplement free	Amperometric		
DO	CPD11	O	0~50℃	ABS	Required	Galvanic	0.5mol NaOH	
EC	CPE11	O	0~80℃	ABS	-	2 Pole	-	
	CPE12	O	0~80℃	ABS	-	2 Pole	-	

System Diagram

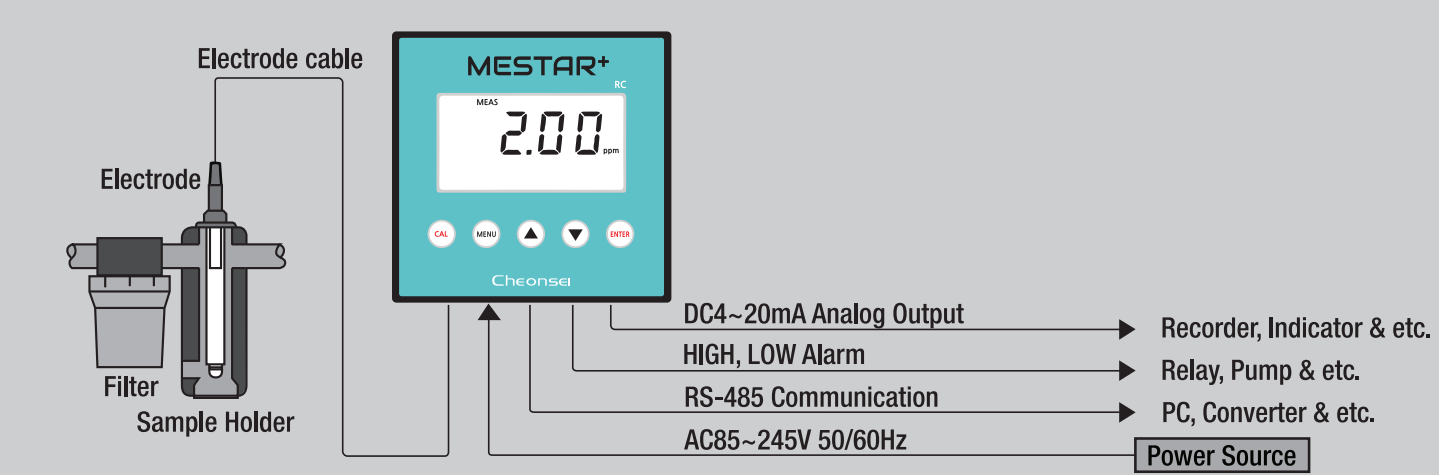
〈Electrode Holder Type〉

* Applicable model : pH/ORP, DO



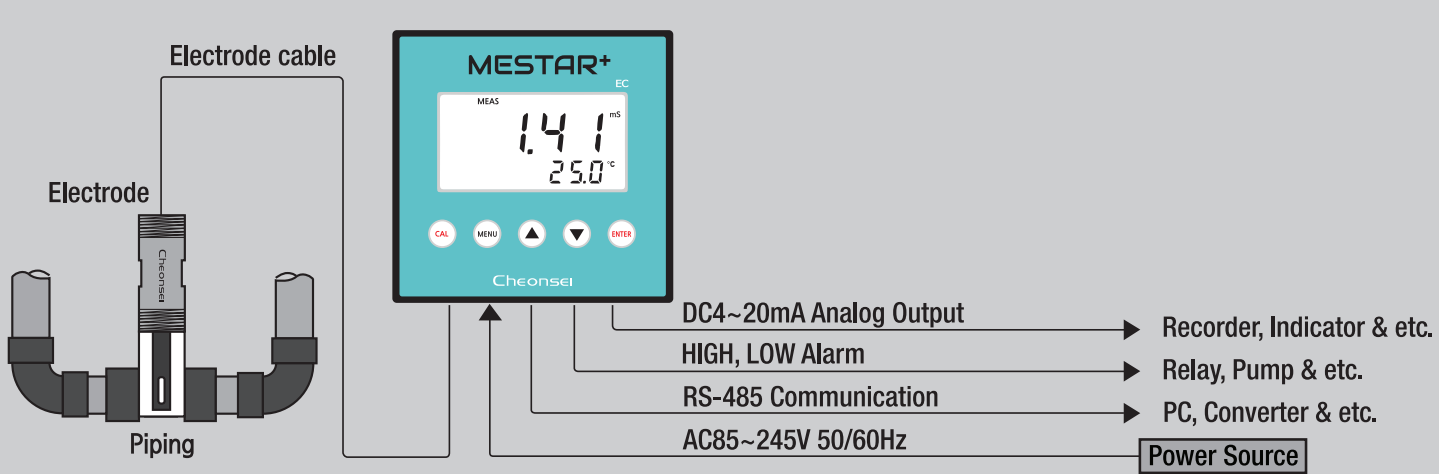
〈Sample Holder Type〉

* Applicable model : pH/ORP, RC



〈Pipe Mounting Type〉

* Applicable model : EC



Sets and Components

〈Electrode Holder Type〉



Buffer Powder &
Calibration Liquid Bottle



Electrode Holder



Connection Box



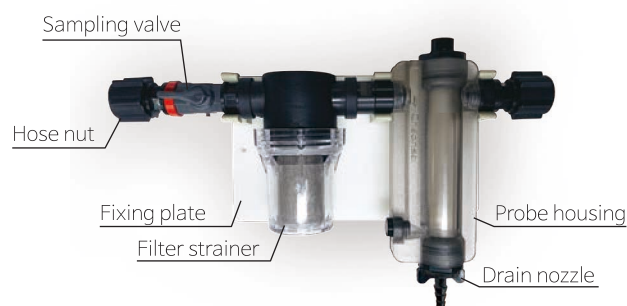
Bracket for Electrode
Holder



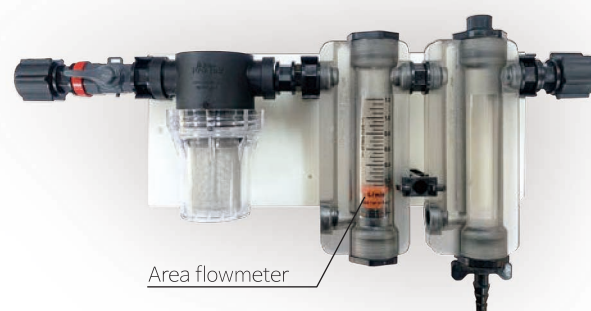
Special Shielded Cable

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

〈Sample Holder Type〉



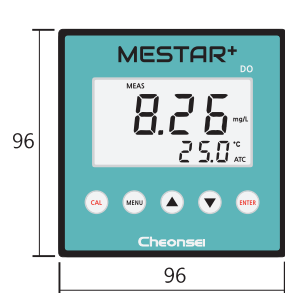
Standard



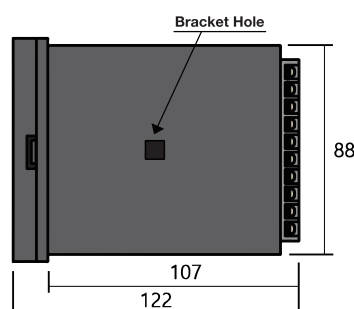
Option

※ 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.

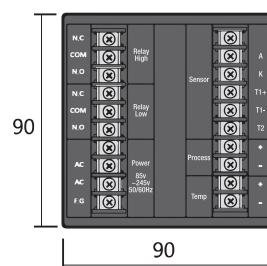
Dimensions



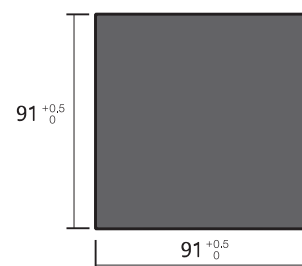
Front View



Side View



Rear View



Panel Hole

MESTAR⁺