

DO

Analyzer
Controller

The Series DC-1200 DO analyzer provides available information of dissolved oxygen with continuous and stable measurement in the process of industrial plant or waste water plant. It has optimized signal able to control the device relate with blower for aerating so that it makes air in suitable amount supplied to the aeration system through adjusting the blower's revolution. This analyzer computes the ppm value based on the temperature, the atmospheric pressure, and the salinity. Our sensors can be utilized in most monitoring applications since the best suited electrode can be chosen from a wide variety of models. The process temperature is accurately measured at the sensor and reflected to DO value through temperature compensation.

Specifications

Nomenclature : DO analyzer/controller

Model : DC-1200

Measuring range : 0.00 to 19.99mg/l (ppm)

Display : Light Emitting Diode

Measuring Principle :

DC-1200-G : Galvanic cell

DC-1200-P : Polarographic

Accuracy : within 1% of span

Linearity : $\pm 0.5\%$ of full scale

Repeatability : $\pm 0.5\%$ of full scale

Automatic temperature compensation range :

Standard : $-10\sim 85^{\circ}\text{C}$ ($14\sim 185^{\circ}\text{F}$)

Option : $-10\sim 135^{\circ}\text{C}$ ($14\sim 275^{\circ}\text{F}$)

Ambient temperature : $-10\sim 65^{\circ}\text{C}$ ($14\sim 149^{\circ}\text{F}$)

Allowable humidity : less than 95% R.H.

Response time : 90% response within 30 seconds

Calibration of indicating value :

Two points calibration is completed by immersing an electrode into known sample and air saturated water.

Output : 4~20mA/1~5V DC isolated
(Max wire resistor : 1000 Ω)

Control function :

Contact output : High/Low limits
(free choice over full scale)

Sensitivity : 1/100

Relay contact rate : 250V AC 6A

Power source : 110/220V AC $\pm 10\%$ 50/60Hz

Power consumption : approx. 6VA

Enclosure : SPCC

Dimensions : 96W $\times$ 96H $\times$ 178D mm
(3.78W $\times$ 3.78H $\times$ 7.00D inch)

Mounting : Panel

Cutout size 92W $\times$ 92H mm
(3.62W $\times$ 3.62H inch)

Weight except detector : 1.5kg (3.3lbs)

Sensor selection

Installation : Submersion, Insertion, On-line

Electrode : Galvanic cell/Polarographic

Others :

High temperature, Chemical resistance



Material of holder :

Standard : SUS 304

Option : SUS 316L, PVC, polypropylene

Length of holder :

Standard : 1.5m

Option : 2m, 3m, others

Supplementary pack

package -1 (standard) :

Sensor, Sodium sulfite anhydrous (Na_2SO_3),

Screw driver(+), User's manual

package -2 (option) :

Holder, Holder bracket, Holder supporter,
Junction box, Extension cable

Option

Cleaner : Water/Air jet, Brush, Wiper

While the cleaning is performed, output will keep to hold a value before the cleaning starts. The two cleaning devices among above can be combined to attain better performance.

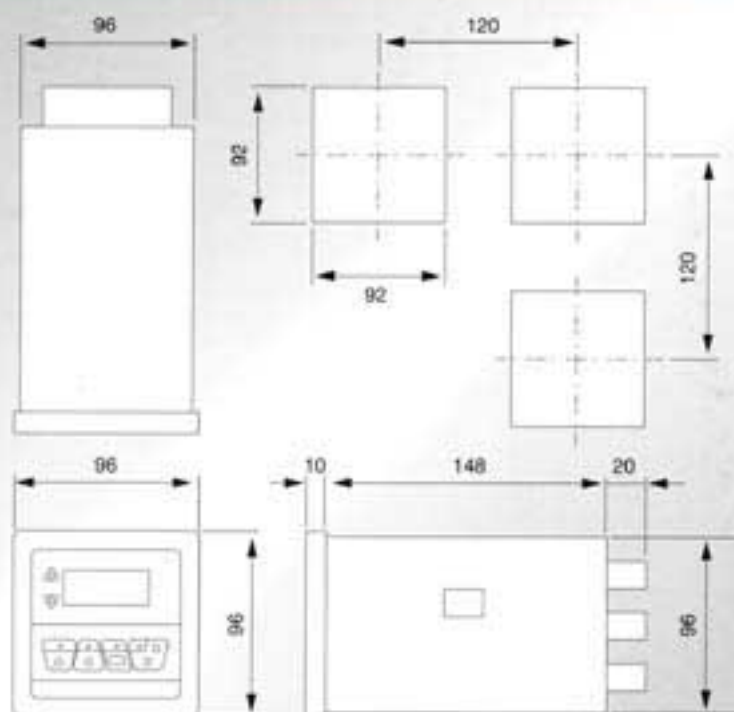
Note

- ① Other materials can be adopted by request.
- ② If customer demand a special range, we can provide such range after viewing possibility.

DO Analyzer/Controller

Series DC-1200

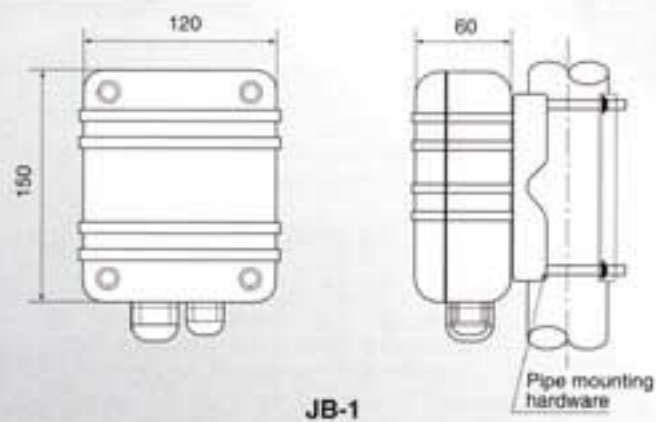
Dimensions



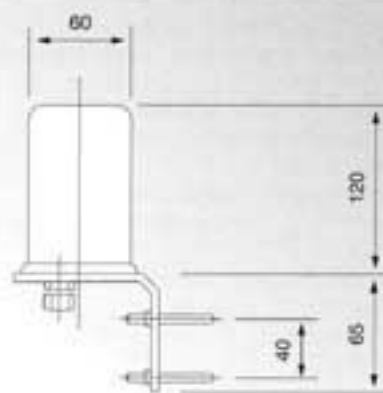
Submersion holder



Junction box



JB-1



JB-2

HCP1002
Printed in ROK 11/99



SECHANG INSTRUMENTS

364-38, HAPCHUNG-DONG, MAPO-KU, SEOUL, KOREA
TEL. +82(2)332-7511 FAX. +82(2)332-5912
URL: <http://www.sechang.com>