ISO-14001 ISO-9001

SPECIFICATION SHEET



PANEL TYPE CONDUCTIVITY ANALYZER

Model: WBM-100

This panel mount type conductivity analyzer is compact and light weight.

This is suitable for use in a broad range of applications from ultra-pure water production to industrial effluent. And the temperature compensation covers -5°C to 120°C.

This conductivity analyzer has some functions like isolated output (DC4~20mA), alarm output terminal (2 circuit change over) and display of sample water temperature.

FEATURES

· Compact DIN96 size

Dimensions: 96x96x145mm, panel cut-out 96x96mm (DIN size) Light weight

- The temperature compensation by microcomputer
 Highly accurate temperature compensation is possible for
 wider temperature ranges compared to analog method.
- It is possible to make measurement from -5~120°C*

 The detector can be used near hydrothermal germicidal treatment process for ultra-pure water.
- Free power supply with voltage between 85~265V, AC50/60Hz.
- Temperature indication

Sample temperature can be monitored as each location as well as conductivity

· Cell constant adjustment function is provided.

It can make accurate measurement by key operation when replacement of a detector.

• Two control points can be set

It is possible to set two control points within measurement range.

If alarm arises, it is displayed on front panel with voltage free contract output.

· Output is isolated type and DC 4~20mA

Input/output terminals are isolated. It is available to connect to any external device.

STANDARD SPECIFICATIONS

Products Name: Panel type conductivity analyzer

Model: WBM-100

Measurement range : By selecting a cell constant out of 4,

one of the following types can be

selected.

: a. $0\sim20~\mu$ S/cm[Cell constant]

(3 ranges; $0 \sim 0.2/0 \sim 2/0 \sim 20 \mu \text{ S/cm}$)

[0.01/cm] : b. 0~200 μ S/cm

 $(0\sim2/0\sim20/0\sim200 \mu \text{ S/cm}) [0.1/\text{cm}]$



: c. 0~2000 μ S/cm

 $(0\sim20/0\sim200/0\sim2000 \mu \text{ S/cm})$ [1.0/cm]

: d. 0~20mS/cm

 $(0\sim0.2/0\sim2/0\sim20\text{mS/cm})$ [10.0/cm]

Output range: Transmission output range can be set

freely. However it is requires 25% or more width of a measurement range.

Temperature range : -5~120°C*, Resolution 0.1°C

Display :Digital LCD **Temp. compensation:** -5~120°C*

Temp sensor: Thermistor (built in sensor)

Accuracy: Within $\pm 1\%$ FS (as equivalent resistance)

Output Transmission: 4~20mA DC isolated,

max load 650 Ω

Control Functions

Control outputs: 2 (H/L,H/HH,,L/LL) Set range: 0~FS (Free setting is allowed) Contact output: Voltage free contact Contact rating: AC250V 3A

Alarm indication : Displayed on front panel

Other function: Over scale indication: Blinking LCD.

Linearity: Within ±0.5%FS(Exclusive sensor)

However, if the cable length is 50m and

more, it is within $\pm 1.0\%$ FS

Repeatability: Within 0.1%FS±1digit (exclusive sensor)

Power requirement : AC85~265V, 50/60Hz

Power consumption: Approx. 10VA

Ambient temp. & humidity: -5~50°C, 95%RH or less **Construction**: Panel mounted type, indoor (IP30)

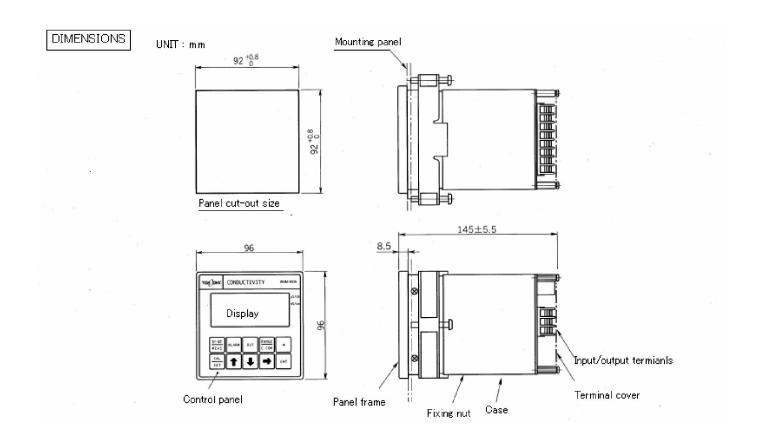
Case Material: Aluminum and plastic

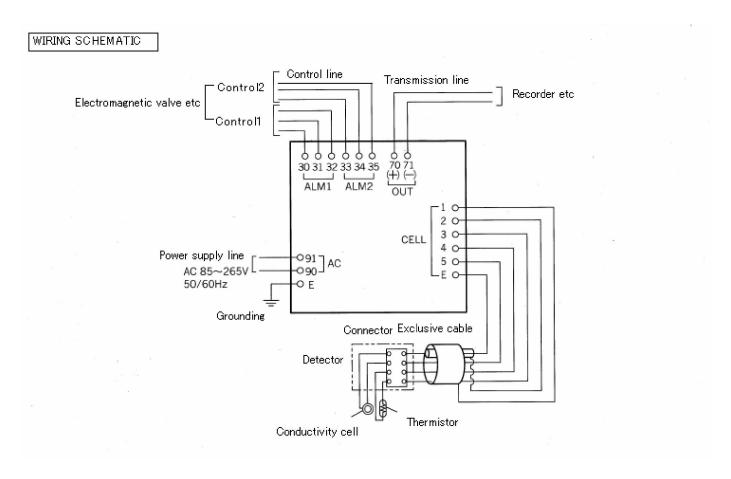
Mounting :: Panel mounting Panel cut out: : 92(W)x92(H) mm

Dimensions: 96(W)x96(H)x145(D)mm

Weight : Approx.1kg

*Depend on the sensor to be connected





Combined Sensor

Product name :Conductivity sensor **Model** : A type, AR type etc. **Cell constant** : 0.01/0.1/1.0/10.0cm⁻¹

Temp sensor: Thermistor (sealed inside inner electrode)

Sample conditions:

Temperature : 0~100°C

Pressure : 1MPa or less (A type)

0.5MPa or less (AR type)

Materials Main body: SUS 316

Connector : Plastic Connector box: Aluminum casting

Electrode: SUS 316

Electrode insulation: Glass(hermetic seal)

PTFE (Teflon)
Case : SUS316 or P.P(polypropylene)

Piping connections: R3/4 screw-in type

Piping temp range :0~100°C

Connection cable: OD 8mm (EC-10)standard is 50m or

less (max 100m).

Extension cable

The extension cable is a special cable for use with conductivity transmitter. It is used for connection between transmitter and detector.

Model: EC-10

External diameter: ϕ 8mm **Insulator:** Polyethylene and vinyl

External coating: Vinyl

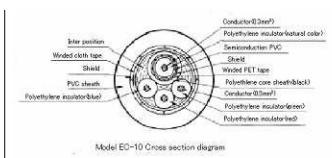
Insulating resistance between wire and lines

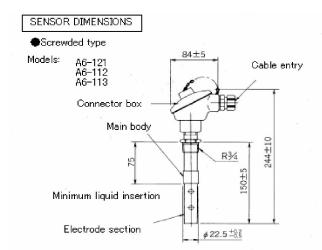
 $10^5 \mathrm{M}\,\Omega$ or more/100m

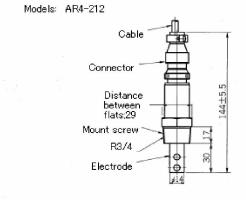
Extended distance: 100m at maximum, not allowed to

connect lines in the middle.

Standard length: 5~100m in units of 5m. Weight: Approx.0.5kg/5m

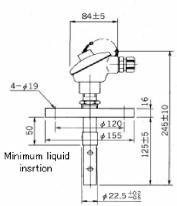


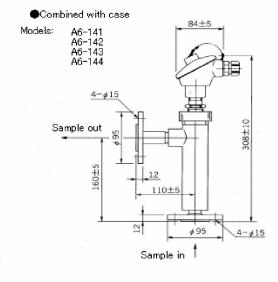




●Franged type

Models: A6-121





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Do not operate products before consulting instruction manual.

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