SPECIFICATION SHEET



Panel Conductivity meter (Double channels)

WBM-210A

Small and light weight panel type double channels conductivity meter.

It can support a wide measurement range from ultra pure water (0 to 0.2000 µS / cm) at semiconductor factories to factory waste (0 to 20.00 mS / cm). It also covers a wide temperature compensation range (-5 to 120 °C).

It has transmission output (4 to 20mA DC 2-circuit), alarm output (2-circuit C contact) and RS-232C digital output.



Features

DIN 96 small size

96 mm x 96 mm (DIN specification) x 171 m, small and portable type.

 Two detectors can be connected, and two locations can be measured.

By key operation, both measurement values, ratio of two measured values, removal rate can be switched and displayed sequentially. And also can be set automatically switch them at 5 second intervals.

- The power supply is 90 to 264V AC free power.
- It also measures temperature.

It measures water temperature while measuring conductivity in each measuring point (temperature is approximate value)

- It has a cell constant setting function.
 - When the detector is replaced, set the cell constant by key operation. By doing so you can make accurate measurements.
- Two-point no voltage alarm contact output is equipped. For each contact output, one alarm condition can be set from the following items.
- Upper or lower limit of conductivity at both measuring points, resistivity ratio of both measuring points, removal rate, etc.
- o Digital communication output RS-232C is standard equipment.

o Transmission output is an insulated 4 to 20mA DC 2 circuit.

Since it's input and output insulation type, it can be corresponding to all external connecting machines.

Standard specification

Product name: Panel conductivity meter

Model : WBM-210A

Test range : to choose from 4 kinds of cell constants,

and specify type 1 to 4 below.

Display... 1 0 to 20µS/cm (3 ranges) (cell constant)

(0 to 0.2/0 to 2/0 to 20 µS/cm)

[0.01/cm]

[1.0/cm]

(0 to 2/0 to 20/0 to 200 µS/cm)

[0.1/cm]

2 0 to 200 µS/cm 3 0 to 2000 µS/cm

(0 to 20/0 to 200/0 to 2000 µS/cm)

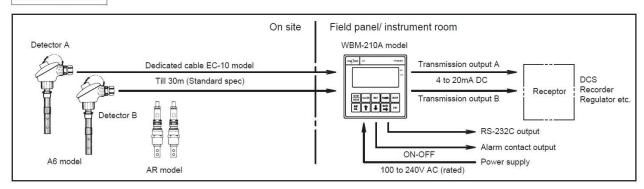
(4) 0 to 20mS/cm

(0 to 0.2/0 to 2/0 to 20mS/cm)

[10.0/cm] Output... Optional setting, however, the setting width is 25%

or more of the measurement range Temperature... -5 to 120°C, resolution 0.1°C

Structure chart



Display : electronic liquid crystal display (LCD)

Temperature compensation range... -5 to 120°C compensation Temperature detecting element... thermistor

(in-built in detector)

Transmission insulation type, 4 to 20 mA DC, load resistance is

output 650 Ω or less.

Equipped with 2 circuits

Besides the electric conductivity, the ratio of both electric

conductivity and the removal ratio are also corresponded. and temperature Materials

Warning Equipped with 2 circuits

Selectable from electric conductivity, electric function

conductivity ratio or removal rate Upper and lower limit settable range Electric conduction: 0 to FS Electrical conductivity ratio: 0 to 100%

Removal rate: 0 to 100%

Contact output... no voltage c contact

Contact capacity... 250V AC 3A or 30V DC 3A

(resistive load)

Alarm display... It displays when there is an

Detector alarm. connection number: maximum two

Wiring diagram

Other functions : when scale out... liquid crystal display flashes.

Performance linearity... within ±0.5%FS (excluding the

detector)

Repeatability...within ±0.3%FS (excluding the

detector)

Power supply 90 to 264VAC, 50/60Hz

Power consumption : about 10VA

Ambient humidity below 95%RH, -10 to 50°C

> main body...aluminum Display position and operating position...

polyester film

Installation method : panel mounting

Boundary dimension : 96 (W) x 96 (H) x 171 (D) mm Engravings...92 (W) x 92 (H) mm

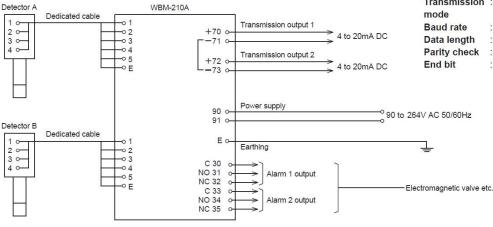
Weight

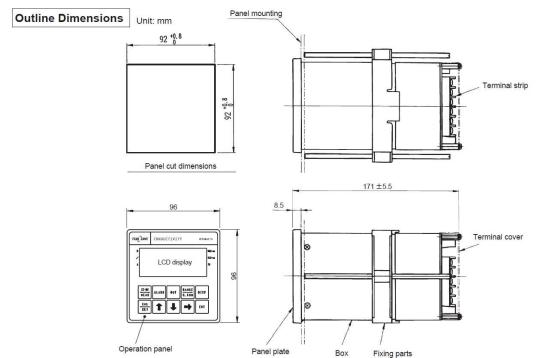
RS-232C communication

Specification: abide by JIS X5103

Transmission: non-synchronous, half-duplex

mode communication 9600 bps 8 bit : no parity : 1 bit





■ Combination detector (representative case)

Product name : conductivity detector

Model : A6. AR

Cell : A6 ...0.01/cm, 0.1/cm,1.0/cm,10.0/cm
constant AR (small size • for pure water use)

0.01/cm, 0.1/cm

thermistor (inside electrode)

Temperature sensory element

Simple : temperature... 0 to 100°C water condition Pressure... 1MPa or less

AR electrode is 0.5 MPa or less

Materials : electrode...SUS316

AR electrode is made of titanium.

Electrode insulator...glass • PTFE

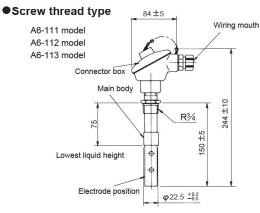
AR electrode is FKM • PPS

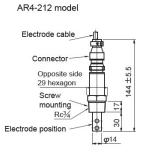
Installation position...SUS316
Connector box...aluminum casting

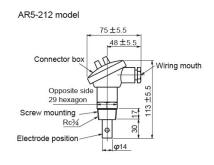
standard till 30m.

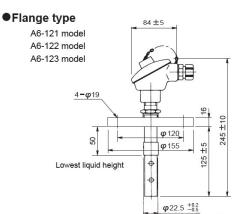
Outline outline dimensions

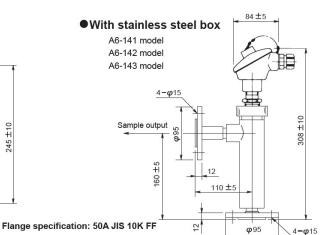
Unit: mm











Flange specification: 15A JIS 10K RF





Please read the operation manual carefully before using producuts.

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