

Electrical Conductivity Transmitter

WBM-165H

This is a field-installation 2-wire type (24 VDC power supply) electrical conductivity transmitter with practical functions in a robust die-cast aluminum case.

Features

- Available for a wide measurement range from ultra pure water (0 to 0.2 $\mu\text{S}/\text{cm}$) to industrial wastewater (0 to 20mS/cm) and a wide temperature compensation range from -5 to 120°C .
- The temperature of sample water (-5 to 120°C) is measured and displayed.
- Set to the maintenance mode, ST-BY lights up on the LCD display and the transmission output is held at the value immediately before switching.
- The measured value can be set to the electrical conductivity value for operational control. (Setting range: $\pm 20\%$ of measured value)

Standard Specifications

Product Name : Conductivity Transmitter
 Model : WBM-165H
 Measurement Range :
 0 to .2000/2.000/20.00 $\mu\text{S}/\text{cm}$ (Cell constant 0.01)
 0 to 2.000/20.00/200.0 $\mu\text{S}/\text{cm}$ (Cell constant 0.1)
 0 to 20.00/200.0/2000 $\mu\text{S}/\text{cm}$ (Cell constant 1)
 0 to .2000/2.000/20.00mS/cm (Cell constant 10)
 Temperature; -5 to 120°C (Minimum Indication: 0.1°C)

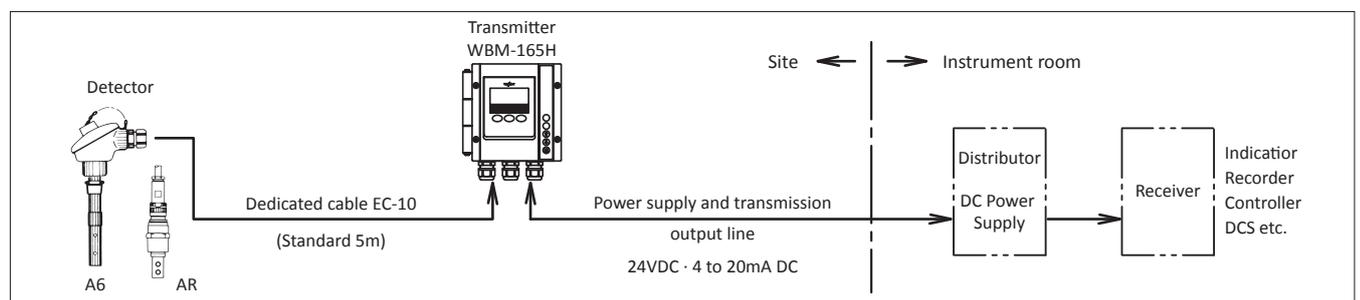
Performance (at equivalent input)

Straight Line;
 Dedicated Cable Max 20m Conductivity... $\pm 0.5\%$ FS
 Temperature; $\pm 0.3^\circ\text{C}$ Dedicated Cable 21 to 50m
 Conductivity... $\pm 1.0\%$ FS Temperature; $\pm 0.5^\circ\text{C}$
 Repeatability ;
 Conductivity... $\pm 0.2\%$ FS Temperature; $\pm 0.1^\circ\text{C}$

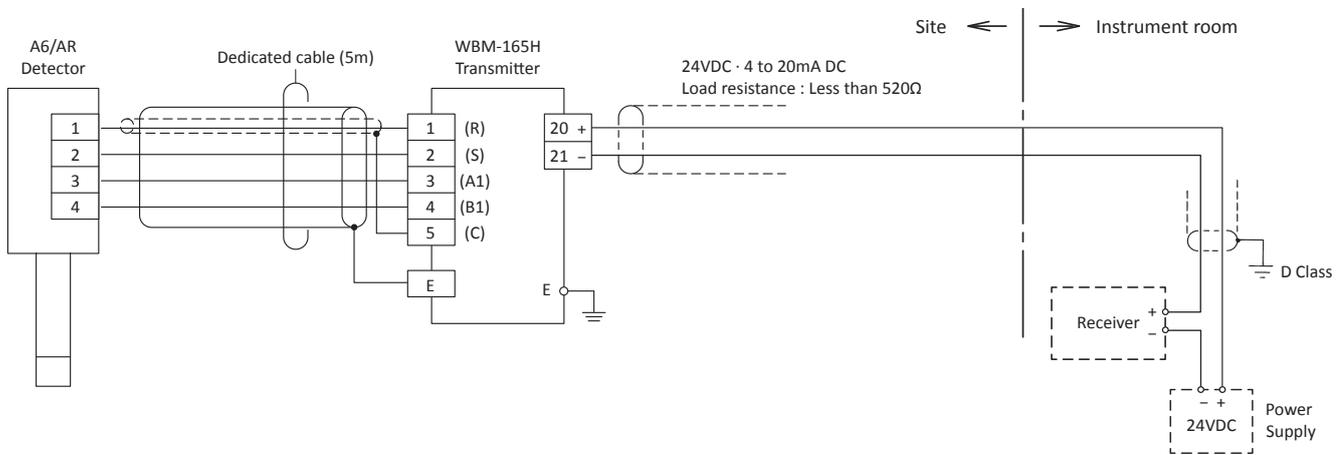


- Indicator : LCD Display (4-digital display)
- Power supply : 2-wire type 24VDC, less than 0.6VA
- power consumption
- Transmission output : 25% or more of the measurement range to be set optionally.
- Transmission output : 4 to 20mA DC isolated type. Load resistance; Less than 50Ω
- Ambient temperature : -20 to 55°C , less than 95%RH and humidity (During transportation; -30 to 65°C , less than 98%RH)
- Structure : IP65 (Equivalent to NEMA4X)
- Mounting method : 50A Pipe mounting (Option: wall, rack mounting)
- Weight : Approximately 2kg
- Case Material · Coating : Die-cast aluminum / metallic silver (Display key operation panel; Polyester resin · Munsell N1.5)
- Wiring port : 3 cable gland locations (For 6 to 12 outer diameter cable)
- Combination detector : A6 cell or AR cell (Dedicated cable EC-10 type between transmitter and detector, max. 50m)

Configuration Diagram



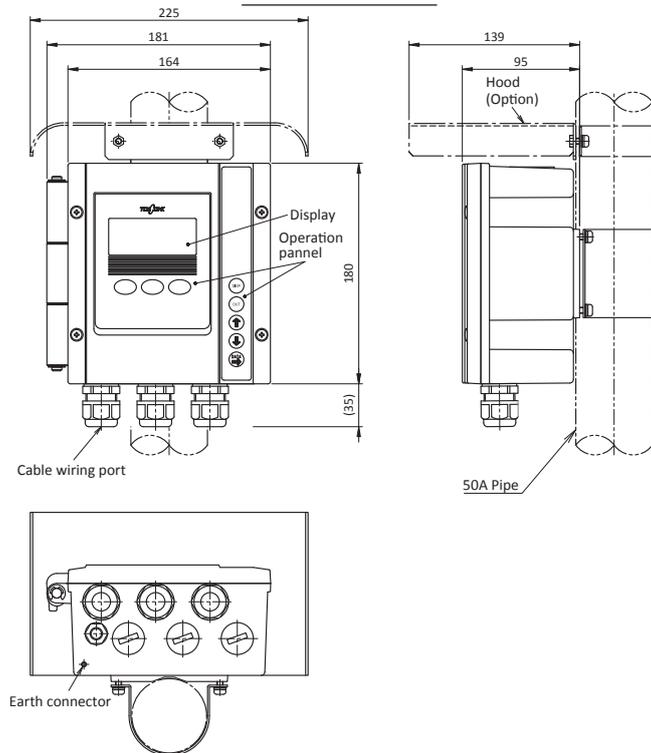
Terminal Connection



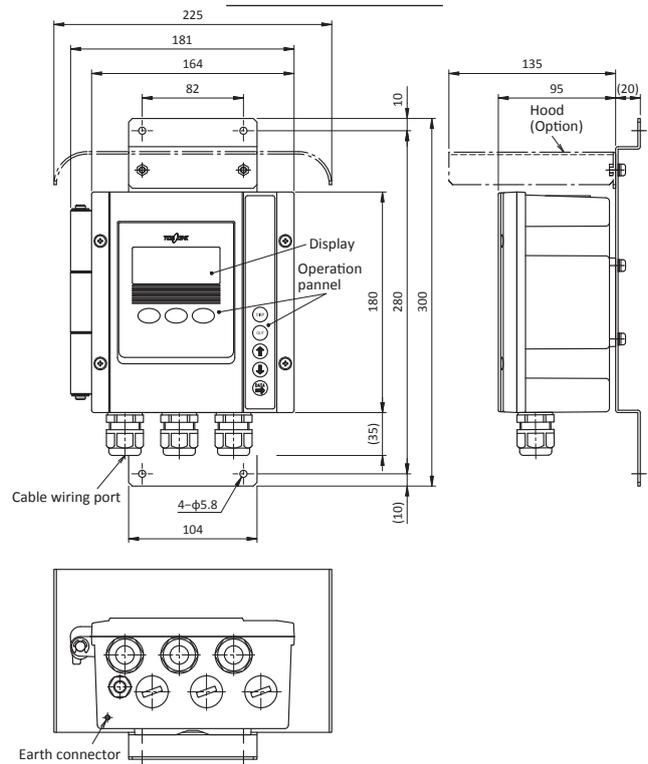
Dimensions

Unit : mm

50A Pipe mounting



Wall · Rack mounting



■ Combination Detector

Product Name : Conductivity detector
 Model : A6 cell, AR cell
 Cell Constant : A6 cell...0.01/cm, 0.1/cm, 1.0/cm, 10.0/cm
 AR cell (For compact · pure water)
 ...0.01/cm, 0.1/cm
 Thermometer : Thermistor (Sealed in the inner pole)
 Sample Water : Temperature...0 to 100°C
 Condition : Pressure...Less than 1MPa
 AR cell is less than 0.5MPa

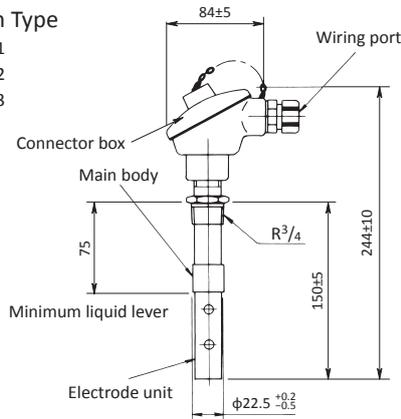
Material : Main body...SUS 316
 Electrode... SUS 316
 Electrode insulator...Glass (hermetic seal), PTFE
 Piping Connection : Case...SUS 316 or P.P. (Polypropylene)
 Dedicated Cable : R 3/4 Screwed or flanged connection
 : EC-10 Type (Outer diameterφ8)
 Longest 50m

Dimensions

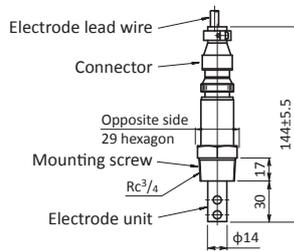
Unit : mm

● Screw In Type

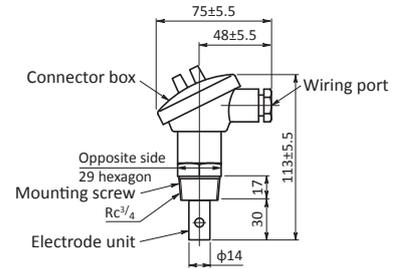
A6-111
 A6-112
 A6-113



AR4-212

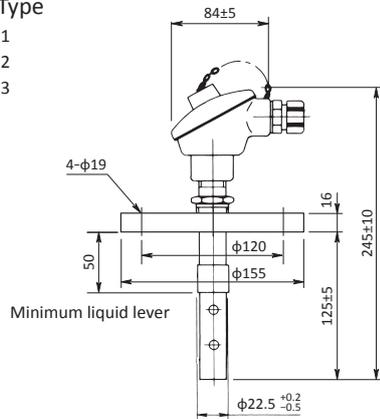


AR5-212



● Flange Type

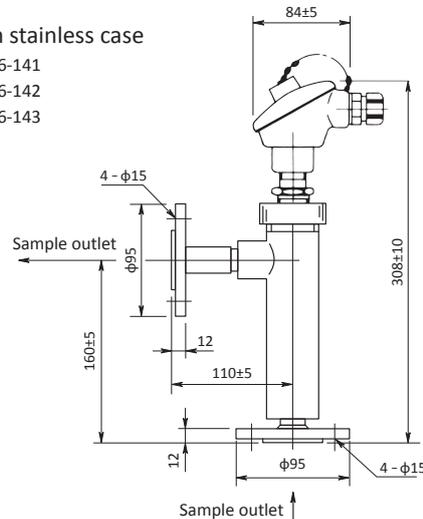
A6-121
 A6-122
 A6-123



Flange specification: 50A JIS 10K FF

● With stainless case

A6-141
 A6-142
 A6-143



Flange specification: 15A JIS 10K RF



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Please read the operation manual carefully before using products.