

# ICM - 3833

## Industrial Conductivity meter



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ►► INDUSTRIAL CONDUCTIVITY METER

Industrial Conductivity Meter is an industrial process instrument. It is widely used to continuously monitor the conductivity of softened water, steam condensed water, seawater distillation, raw water and deionized water.

### ►► Main Characteristics

- Adopting single chip micro-processor technology to make automatic compensation of temperature coefficient of water solutions (including ordinary electrolyte solution and pure water) with accurate data processing.
- With automatic calibration and measurement range conversion, easy to use.
- LCD with large screen to display conductivity and temperature of solutions to be measured at the same time with value of conductivity being converted automatically into that of at 25 C.
- Having output signal of isolated (4-20) mA DC with its corresponding conductivity range being set by users.
- With conductivity upper limits warning function.
- With 5 operating parameters: electrode constant, temperature coefficient, output upper limit, output lower limit and warning upper limit, which could be modified by users in accordance with their practical situation. With power-off protection function.
- 3 kinds of conductivity cell can be equipped: 2043-205B with the conductivity cell constant of 0.01/cm; 2043-405B with the conductivity cell constant of 0.1/cm and 2043-605B with the conductivity cell constant of 1/cm.
- Metal housing is used with a protection grade of IP65.

### ►► Main Technical Specifications

1. Measurement Range: Conductivity (0.000-10<sup>4</sup>) ( S/cm)

Conductivity Measurement Range S/cm	Constant of Conductivity Cell cm <sup>-1</sup>
10-10000	1
1-200	0.1
0.01-20	0.01

Temperature: (-10.0-120.0) C

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### 2. Basic Error of the Instrument

Conductivity: 2.0% (FS)

Temperature: 0.5°C (0.0°C T 60.0°C)

1.0°C (in other ranges)

### 3 Stability of Electronic Unit: 0.5% (FS)/24h

### 4 Range of Temperature Coefficient Compensation: (0-10.0)%/ 0°C (Adjustable)

### 5 Range of Automatic Temperature Compensation: (5.0-60.0) 0°C

### 6 The Max. Pressure Used in Conductivity Cell: 0.5 10<sup>6</sup>pa

### 7 Overall Dimension of Electronic Unit: 144 144 150 mm

### 8 Hole Size of Electronic Unit: 138 138mm

### 9 Weight of Electronic Unit: about 2kg

### 10 Normal Operating Conditions

a) Ambient Temperature: (-5-50)°C

b) Relative Humidity: no greater than 90%

c) Power Supply: 220 22 V AC, 50 0.5 Hz

d) No corrosive gases in the air nearby

e) No electromagnetic field in the surrounding to interfere in the performance of the instrument except geomagnetic field.

f) No vibration in the surrounding to affect the performance of the instrument.

### 11. Connection between Water Samples and Inlet and Outlet of Transmitter

Model of transmitter	ICM-3043-305B-1 (Vertical Type Stainless Steel Tube) ICM-3043-305B-1 ICM-3043-305B-1	ICM-3043-305B-3 (Tapered Plug-in PVC Tube) ICM-3043-305B-3 ICM-3043-305B-3 ICM-3043-305B-2 (Regular Three-way PVC Tube)
Inlet Connector	OD 6 1 stainlesssteel tube or PVC tube	1", 3/4" or 1/2" tube of national standard.
Outlet Connector	OD 10 1 stainlesssteel tube or PVC tube	1", 3/4" or 1/2" tube of national standard.

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