

Pt glass electrode. 4 ranges, professional

CONDUCTIVITY METER

Model : YK-2014CD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

CONDUCTIVITY METER

Model : YK-2014CD

FEATURES

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| * Innovative feature with built-in automatic temperature compensation factor adjustable between 0 to 5.0% per $^{\circ}$ C. |
| * Wide range, 200 μ S/2 mS/20 mS/200 mS. |
| * Selecting " 0% per $^{\circ}$ C " of Temp. Coefficient Adjust, allows you to take uncompensated conductivity readings (absolute conductivity measurement). |
| * Temperature compensation range : 0 to 50 $^{\circ}$ C. |
| * Pt glass electrode, high performance, available for low conductivity measurement. |
| * Conductivity measurement (μ S, mS) or TDS (Total Dissolved Solids, PPM) can be selected. |
| * Auto range or manual range can be selected. |
| * Wide sampling time adjustment range from two seconds to 8 hours 59 minutes 59 seconds. |
| * RS232 computer interface. |
| * Can default auto power off or manual power off. |
| * Super large LCD display with contrast adjustment for best viewing angle. |
| * Data hold, record max. and min. reading. |
| * Power by UM3 (1.5 V) x 4 batteries or DC 9V adapter. |
| * RS232 PC serial interface. |
| * Separate probe, easy for operation of different measurement environment. |
| * Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning. |

GENERAL SPECIFICATIONS

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|------------------------------|---|
| Circuit | Custom one-chip of microprocessor LSI circuit. |
| Display | LCD size : 58 mm x 34 mm. |
| Measurement | * Conductivity (μ S, mS) * TDS (Total Dissolved Solids, PPM) * Temperature ($^{\circ}$ C, $^{\circ}$ F) |
| Temperature Compensation | Automatic from 0 to 60 $^{\circ}$ C (32 - 140 $^{\circ}$ F), with temperature compensation factor variable between 0 to 5.0% per $^{\circ}$ C. |
| Conductivity Probe Structure | Professional Pt glass electrode, high performance, available for low conductivity measurement. |
| Data Hold | Freeze the display reading. |
| Memory Recall | Maximum & Minimum value. |
| Power off | Auto shut off saves battery life or manual off by push button. @ Can default auto power or manual power off. @ When default auto power function, power will off automatically after 10 min., if no button be pressed. |
| Sampling Time of display | Approx. 1 second. |
| Data Output | RS 232 PC serial interface. |
| Operating Temperature | 0 to 50 $^{\circ}$ C. - Main instrument. 0 to 60 $^{\circ}$ C - Conductivity probe only. |

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| Operating Humidity | Less than 80% R.H. |
| Power Supply | DC 1.5 V battery (UM3) x 4 PCs, * main instrument (Heavy duty type). |
| | DC 9V adapter input. @ AC/DC power adapter is optional. |
| Power Current | Approx. DC 15.2 mA |
| Weight | 425 g/ 0.94 LB. @ Battery is included. |
| Dimension | Main instrument : 203 x 76 x 38 mm Pt glass conductivity probe : Round, 12.4 mm Dia. x 162 mm length. |
| Accessories Included | Instruction manual..... 1 PC Conductivity probe..... 1 PC Carrying case..... 1 PC |
| Optional Accessories | * 1.413 mS Conductivity Standard solution. * AC to DC 9V adapter. * RS232 cable, UPCB-02. * USB cable, USB-01. * Data Acquisition software, SW-U801-WIN. |

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ C)**A. Conductivity**

| Range | Measurement | Resolution | Accuracy |
|-------------|--------------------|-------------|---------------------------------------|
| 200 μ S | 0 to 200.0 μ S | 0.1 μ S | ± (2% F.S.+1d) * F.S. - Full scale |
| 2 mS | 0.2 to 2.000 mS | 0.001 mS | |
| 20 mS | 2 to 20.00 mS | 0.01 mS | |
| 200 mS | 20 to 200.0 mS | 0.1 mS | |

* Temperature Compensation :

Automatic from 0 to 60 $^{\circ}$ C (32 - 140 $^{\circ}$ F), with temperature compensation factor variable between 0 to 5.0% per $^{\circ}$ C.* The accuracy is specified under measurement value \leq 100 mS.* mS - milli Simens * @ 23 \pm 5 $^{\circ}$ C**B. TDS (Total Dissolved Solids)**

| Range | Measurement | Resolution | Accuracy |
|-------------|-----------------------|------------|---------------------------------------|
| 200 PPM | 0 to 132 PPM | 0.1 PPM | ± (2% F.S.+1d) * F.S. - Full scale |
| 2,000 PPM | 132 to 1,320 PPM | 1 PPM | |
| 20,000 PPM | 1,320 to 13,200 PPM | 10 PPM | |
| 200,000 PPM | 13,200 to 132,000 PPM | 100 PPM | |

* Temperature Compensation :

Automatic from 0 to 60 $^{\circ}$ C (32 - 140 $^{\circ}$ F), with temperature compensation factor variable between 0 to 5.0% per $^{\circ}$ C.* The accuracy is specified under measurement value \leq 66,000 PPM.* PPM - parts per million * @ 23 \pm 5 $^{\circ}$ C**C. Temperature**

| Function | Measuring Range | Resolution | Accuracy |
|--------------|-------------------------------------|------------------|------------------|
| $^{\circ}$ C | 0 $^{\circ}$ C to 60 $^{\circ}$ C | 0.1 $^{\circ}$ C | 0.8 $^{\circ}$ C |
| $^{\circ}$ F | 32 $^{\circ}$ F to 140 $^{\circ}$ F | 0.1 $^{\circ}$ F | 1.5 $^{\circ}$ F |