

*2,000 uS/20 mS, separate probe*

# CONDUCTIVITY METER

Model : PCD-432

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

Pen type, separate probe

# CONDUCTIVITY METER

Model : PCD-432

## FEATURES

* Pen type conductivity meter provides fast, accurate readings with digital reading.
* Separate electrode, easy operation.
* Conductivity measurement ( uS, mS ) or TDS ( Total Dissolved Solids, ppm ) can be selected.
* Conductivity : Two ranges, 2,000 uS, 20.00 mS.
* TDS : Two ranges, 20,000 ppm, 2,000 ppm.
* Carbon rod electrode for long life.
* Build in temperature sensor, ATC ( auto temperature compensation ).
* Temperature measurement, °C, °F.
* LCD with two displays show conductivity and Temp. value at same time.
* Data hold function for freezing the desired value.
* Auto power off to save the battery life.
* Records max. and min. value with recall.
* Microcomputer circuit, intelligent function, high accuracy.
* Compact size, light weight.
* Power supply by DC 1.5 V battery ( UM4/AAA ) x 4 PCs,
* Available for wide applications, such as aquarium, beverage, fish hatcheries, food processing, photography, laboratory, quality control, school & colleges, swimming pools, water conditions.

Operating Humidity	Less than 80% RH.
Power Supply	DC 1.5V battery ( UM-4/AAA ) x 4 PCs.
Power Consumption	Approx. 5.7 mA.
Dimension	<i>Meter :</i> 190 x 40 x 40 mm ( 7.5 x 1.6 x 1.6 inch ). <i>Conductivity PROBE :</i> Round, 22 mm Dia. x 120 mm length.
Weight	230 g/0.51 LB.
Standard Accessories	Instruction Manual..... 1 PC
Power off	Auto shut off saves battery life or manual off by push button. <i>* Power will off automatically after 10 min., if no button be pressed.</i>
Standard Accessories	Instruction Manual..... 1 PC
Optional Accessories	* Soft carrying case with sash ( 210 x 110 x 55 mm ), Model : CA-05A * Hard carrying case ( 280 x 195 x 65 mm ), Model : CA-06

## SPECIFICATIONS

Display	LCD, size : 20 mm x 28 mm.
Measurement	* Conductivity ( uS, mS ) * TDS ( Total Dissolved Solids, ppm ) * Temperature ( °C, °F)
Ranges	<i>Conductivity:</i> 2000 uS, 20.00 mS <i>TDS :</i> 2,000 ppm 20,000 ppm
Accuracy	± ( 2% FS + 1 d ) <i>* 23 ± 5 °C</i> <i>* FS : full scale</i>
Temperature Compensation	Automatic from 0 to 60 °C ( 32 - 140 °F ), with temperature compensation factor variable between 0 to 5.0% per C.
Conductivity Probe Structure	Carbon rod electrode for long life.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 0.8 second.
Circuit	Custom one-chip of microprocessor LSI circuit.
Power off	Auto shut off saves battery life or manual off by push button. <i>* Power will off automatically after 10 min., if no button be pressed.</i>
Operating Temperature	0 to 50 °C ( 32 to 140 °F ).

## ELECTRICAL SPECIFICATIONS ( 23± 5 °C )

### A. Conductivity

Range	Measurement	Resolution	Accuracy
2000 uS	2 to 2000 uS	1 uS	± (3% F.S.+1d)
20 mS	2 to 20.00 mS	0.01 mS	* F.S. - Full scale

\* Auto range.  
\* Temperature Compensation :  
Automatic from 0 to 60 °C ( 32 - 140 °F ), with temperature compensation factor variable between 0 to 5.0% per C.  
*\* mS - milli Simens \* uS - micro Simens \* 23± 5°C*

### B. TDS ( Total Dissolved Solids )

Range	Measurement	Resolution	Accuracy
2,000 ppm	132 to 1,320 ppm	1 ppm	± (3% F.S.+1d)
20,000 ppm	1,320 to 13,200 ppm	10 ppm	* F.S. - Full scale

\* Auto range.  
\* Temperature Compensation :  
Automatic from 0 to 60 °C ( 32 - 140 °F ), with temperature compensation factor variable between 0 to 5.0% per °C.  
*\* ppm - parts per million \* 23± 5°C*

### C. Temperature

Function	Measuring Range	Resolution	Accuracy
°C	0 °C to 60 °C	0.1 °C	0.8 °C
°F	32 °F to 140 °F	0.1 °F	1.5 °F

*\* @ 23± 5°C*

\* Appearance and specifications listed in this brochure are subject to change without notice.