Conductivity, TDS, Salt, Hardness, Resistivity 20 uS/200 uS/2 mS/20 mS/200 mS

WATER HARDNESS PURE WATER METER

Model: CD-4309 *ISO-9001, CE, IEC1010*





The Art of Measurement

Conductivity, TDS, Salt, Hardness, Resitivity 20uS, 200uS, 2mS, 20mS, 200mS

WATER HARDERNESS/PURE WATER METER

Model: CD-4309

FEATURES

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*	One meter for multi purpose operation : Conductivity,
L	TDS (Total dissolved solids), Salt , Hardness , Resitivity measurement.
*	Conductivity: 20 uS/ 200 uS/2 mS/20 mS/200 mS.
*	Salt: 0 to 12 % salt (% weight).
*	Hardness: 0 to 100,000 ppm.
*	Resitivity: 5 ohm to 99.99 M ohm.
*	Conductivity measurement can select Temp. Coefficient
	of measurement solution.
*	ATC for the conductivity measurement.
*	Separate probe, easy for operation of different measurement environment.
*	LCD with green light backlight, easy reading.
*	It can default auto power off or manual power off.
*	Data hold, record max. and min. reading.
*	Microcomputer circuit, high accuracy.
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
*	RS232/USB PC COMPUTER interface.
*	Wide applications: water conditioning, aquariums, beverage,
	fish hatcheries, food processing, photography, laboratory, paper industry,
L	plating industry, quality control, school & college, water conditioning.

GENERAL SPECIFICATIONS

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Circuit	Custom on	e-chip of microprocessor LSI circuit.		
Display	LCD size :	52 mm x 38 mm		
	LCD with g	LCD with green backlight (ON/OFF).		
Measurement	* Conductivity (uS, mS)			
Function	* TDS (To	* TDS (Total Dissolved Solids, PPM)		
	* Salt (%	Weight)		
	* Tempera	ture (°C,°F)		
	* Hardniss			
	* Resitivity	•		
Temperature	Automatic	from 0 to 60 °C (32 - 140 °F), with		
Compensation		re compensation factor variable between 0 to		
	5.0% per 0	· >.		
Probe	Pt glass el	ectrode for long life. Hight performance		
Structure	-	conductivity (pure water) measurement.		
Advanced	* Set same			
setting	* Auto pov	ver OFF management		
5	* Set beep Sound ON/OFF			
		perature unit to °C or °F		
	* Set CD temperature compensation factor			
	* Set probe CELL K Value			
Data Hold	<u> </u>	display reading.		
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1			
of Display	''			
Data Output	RS 232/US	B PC computer interface.		
·	* Connect the optional RS232 cable, UPCB-02 will get			
	the RS23	32 plug.		
		the optional USB cable, USB-01 will get the		
	USB plug	1.		
Operating	Meter	0 to 50 ℃.		
Temperature	Probe	0 to 60 ℃.		
Operating	Less than 8			
Humidity				
Power Supply	* Alkaline	or heavy duty DC 1.5 V battery		
	(UM3, AA) x 6 PCs, or equivalent.			
	* DC 9V adapter input. (AC/DC power			
		is optional).		
Power Current	Approx. DC 6 mA.			
	* If LCD backlight on, the power consumption will			
		approx. 12 mA.		
Dimension	Meter	177 x 68 x 45 mm		
		(7.0 x 2.7 x 1.9 inch)		
	Probe	Round.		
	. 1000	22 mm Die v 120 mm length		

Weight	489 g/1.08 LB.		
Accessories	* Instruction manual1 PC		
Included	* Conductivity/TDS/Salt pt glass probe,		
	CDPB-041 PC		
	* Hard carrying case (CA-06) 1 PC		
Optional	* 1.413 mS Conductivity Standard Solution, CD-14		
Accessories	* SD memory card (4 GB)		
	* AC to DC 9V adapter.		
	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software, SW-U801-WIN.		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Conductivity (uS. mS)

00	(40/		
Range	Measurement	Resolution	Accuracy
20 uS	0 to 20.00 uS	0.01 uS	
200 uS	0 to 200.0 uS	0.1 uS	± (2% F.S.+1d)
2 mS	0.2 to 2.000 mS	0.001 mS	
20 mS	2 to 20.00 mS	0.01 mS	* F.S. : full scale
200 mS	20 to 200.0 mS	0.1 mS	

Temperature Compensation :

Automatic from 0 to 60 $^{\circ}\!\mathbb{C}$ (32 - 140 $^{\circ}\!\mathbb{F}$), with temperature compensation factor variable between 0 to 5.0% per C. * The accuracy is specified under measurement value ≤ 100 mS.

* mS - milli Simens * @ 23± 5°C

TDS (Total Dissolved Solids)

Range	Measurement	Resolution	Accuracy
20 PPM	0 to 13.20 PPM	0.01 PPM	
200 PPM	0 to 132 PPM	0.1 PPM	
2,000 PPM	132 to 1,320 PPM	1 PPM	± (2% F.S.+1d)
20,000 PPM	1,320 to 13,200 PPM	10 PPM	* F.S
200,000 PPM	13,200 to 132,000 PPM	100 PPM	full scale

* Temperature Compensation:

Automatic from 0 to 60 $^{\circ}\!\mathbb{C}$ (32 - 140 $^{\circ}\!\mathbb{F}$), with temperature

* The accuracy is specified under measurement value \leq 66,000 PPM.

* PPM - parts per millio * @ 23 ± 5°C

Temperature

Function	Measuring Range	Resolution	Accuracy
$^{\circ}$	0 ℃ to 60 ℃	0.1 ℃	± 0.8 ℃
°F	32 °F to 140 °F	0.1 °F	± 1.5 °F
* @ 23± 5℃			

Salt

Measurement	0 to 12 % salt (% weight).
Range	
Resolution	0.01 % salt.
Accuracy	± 0.5 % salt value

Hardness

Range	Measurement	Resolution	Accuracy
10 PPM	0 to 10.00 PPM	0.01 PPM	
100 PPM	0 to 100 PPM	0.1 PPM	± (2% F.S.+1d)
1,000 PPM	100 to 1,000 PPM	1 PPM	
10,000 PPM	1,000 to 10,000 PPM	10 PPM	* F.S. : full scale
100,000 PPM	10,000 to 100,000 PPM	100 PPM	

Resitivity

Range	Measurement	Resolution	Accuracy	
* automatic	5 ohm-cm to	1 ohm-cm/	± (2% F.S.+1d)	
range	99.99 M ohm-cm	0.01 M ohm-cm	* F.Sfull scale	
t notice.	1609-CD4309			

²² mm Dia. x 120 mm length.

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