SD Card, real time data logger, Water quality, Patent

pH/ORP, DO, CD/TDS, Salt

Model: WA-2017SD

ISO-9001, CE, IEC1010











LUTRON ELECTRONIC

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SD Card real time data logger pH/ORP, DO, CD/TDS, SALT METER

leter for multi purpose operation : P, CD/TDS, Dissolved Oxygen, Salt measurement. to 14.00 pH, ORP : ± 1999 mV.		Optional Accessories		* Oxygen probeOXPB-11 * Spare Probe head with Diaphragm setOXHD-04			
00 uS/2 mS/20 m	5/200 mS.	1 100 X	 * Pr	obe-filling Ele	ectrolyte		OXEL-03
salt (% weight)	- 1 N N N N N N N N N N N N N N N N N N	- VIII->	* 0 SD i	RP Electrode memory card	(1GB)		ORP-14
don.		4W.100	AC t	o DC 9V adap	oter.		
on can select PH	r ORP.	10	RS2	32 cable, UPC	CB-02.		
JU	-517	1111.	". V O.		TIVE	J801-W	IN.
pH 10 or other va	lue.	TN . L	SPECIFICA	TIONS (23:	±5°C)		
asurement can se		V	0-1		ATY		
ductivity measure	nent.	Electrode	Any PH	electrode with E			
with temperature sensor, high precision			mV	mV -1999 mV to 1999 mV			
easurement.		Impedance	- 1 M	O F.	00 ℃. be adjust	ed by	. 1
DD bottle.	TO E	Compensation for pH	7.	push b	utton on front p	anel.	
in " % SALT " & '		measurement	(ATC)	probe	(TP-07)		
, easy for operation	n of different	pH Calibration		14, and PH10, 3	points calibration	on	- T
ns: water conditio		Optional probe and			PE-03, P		
boratory, paper in control, school &	dustry, plating college, water	accessories					ГР-07
emory card Datalo	gger, it Built-in Clock						PH-07 PH-04
			* ORP	electrode			ORP-14
ger is available (s ng execute the m	et the sampling anual datalogger	Measurement PH		PH 0.0	1 PH ±	0.02 PH	
set the different position 99).	osition (location) No.	mV * PH accuracy is		99 mV 1 m	nV ±		
easy operation, o xtra software, afte	r execute	4 1	-4	N. T.	1003		201
		Conductivity probe	e Optio	onal, Carbon ro	d electrode for l	long life.	OM
the all the meas	ired value with	Function	* Co	nductivity (uS,	mS)	7-	CON
the further data o	directly, then graphic	Temperature	Auto	matic from 0 to	60 ℃ (32 - 140		
y: 1 GB to 16 GB	MAIN TON	- 4 M	varia	ble between 0 to		or	I CO
o power off or ma	nual power off.	Operating Temp.			- INN .1	<u>Oo</u>	_ ((
circuit, high accur	acy.	Optional	* Co	onductivity prob	e		CDPB-03
AA (1.5 V) x 6 ba COMPUTER interfa	tteries or DC 9V adapter. ce.	probe and accessories			tivity Standard		CD-14
FICATIONS	100 1					1.1	10 -
circuit.	W	200 uS	0 to 200.0	uS	0.1 uS		4 (2% F.S.+1c
LCD with gr		20 mS	2 to 20.00	mS	0.01 mS		F.S
Conductivity		* Temperature Co	ompensation :				full scale
Salt		compensation f	actor variable	between 0 to 5.0	0% per C.		
	Sampling time can set to 1 second,					5.	M.r.
Manual	ush the data logger button	2. TDS (Total D	issolved Soli	ds)	Paralut	ion	Accuracy
W	Set the sampling time to	200 PPM	0 to 132 P	PM	0.1 PPM		± (2% F.S.+1c
I. T	Manual mode, can also select the	20,000 PPM	1,320 to 1	3,200 PPM	10 PPM	4 1	F.S full scale
SD memory	card. 1 GB to 16 GB.	* Temperature Co	mpensation:	<i>y</i>			Tuli Scare
* Set clock tir Hour/Minut	* Set dock time (Year/Month/Date, Hour/Minute/ Second) * Set sampling time * Auto power OFF management		actor variable i specified unde	between 0 to 5.0 r measurement v	0% per ℃. value ≤ 66,000	РРМ.	
* Auto power				* @ 23±	5℃	-	WW
* Decimal po	nt of SD card setting	Function	Measurin		Resolut		Accuracy ± 0.8 °C
* Set DO salt * Set DO heig	6 compensation value ht (meter) compensation value	°F * @ 23±5℃			0.1 °F		± 1.5 °F
* Set CD tem	* Set CD temperature compensation factor		C. Salt				
* Set pH man	ual Temp. compensation value	Conductivity			o for long life		
Maximum &	Minimum value.	Measurement					-
7 1		Resolution Accuracy		% salt. % salt value	WT		
	PC computer interface.			* F.S. : full scale. Automatic from 0 to 60 ℃ (32 - 140 °F),			
	optional RS232 cable			matic from 11 for	(141		
UPCB-02 w * Connect th	e optional RS232 cable Il get the RS232 plug. e optional USB cable	Temperature Compensation	Auto	temperature cor			
UPCB-02 w * Connect th	e optional RS232 cable Il get the RS232 plug.	Temperature	Auto with varia			W	
* Connect th USB-01 wii	e optional RS232 cable Il get the RS232 plug. e optional USB cable get the USB plug.	Temperature Compensation Probe Operating Temperature	Auto with varia 0 to	temperature cor ble between 0 to 60 ℃.	o 5.0% per C.	h.	
* Connect the USB-01 will 0 to 50 °C. Less than 85	e optional RS232 cable Il get the RS232 plug. e optional USB cable get the USB plug.	Temperature Compensation Probe Operating	Auto with varia 0 to Rour	temperature cor ble between 0 to	o 5.0% per C. x 120 mm lengt	1.1	CDPB-03
## Connect th USB-01 win 0 to 50 ℃. Less than 85 * Alkaline o (UM3, A4 * .DC 9V add adapter is	** optional R5232 cable	Temperature Compensation Probe Operating Temperature Probe Dimension	Auto with varia 0 to Rour	temperature cor ible between 0 to 60 ℃. nd, 22 mm Dia.	o 5.0% per C. x 120 mm lengt	1.1	CDPB-03
# Connect to USB-01 will be used to the USB-01 will be used to to 50 °C. Less than 85 ** Alkaline o (UM3, AA ** .DC 9V adapter is Normal open data and LC	** optional R5232 cable #g + the R5232 plug. ** optional USB cable get the USB plug. %* R.H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent. pter ripput. (AC/DC power optional). ptoptional). Backlight is 6FF):	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and	Auto with varia 0 to Rour * Sa	temperature cor ible between 0 to 60 ℃. nd, 22 mm Dia.	o 5.0% per C. x 120 mm lengt	1.1	CDPB-03
UPCB-02 w * Connect th USB-01 win 0 to 50 °C. Less than 85 * Alkaline o (UM3, AA * ,DC 9V ada dapter is Normal oper data and LC Approx. L When SD ca	in gotional R5232 cable If get the R5232 plug, optional USB cable get the USB plug. W. R. H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent, pter input, (AC/DC power optional). Backlight is OFF): C 14 mA. d save the data and LCD	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of	Auto with varia 0 to Rour * Sa	temperature cor bible between 0 to 60 °C . and, 22 mm Dia. :	o 5.0% per C. x 120 mm lengt	1.1	CDPB-03
URCB-02 w Connect th USB-01 win 0 to 50 €. Less than 85 * Alkaline o (UM3, AA * .DC 9V ad- adapter is Normal oper data and LC Approx. L When SD ca Backlight is Approx. L	voptional R5232 cable If get the R5232 plug. optional USB cable get the USB plug. % R.H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent. pter input. (ACIDC power optional). stor (W) GD card save Backlight is OFF): C 14 m/L. of save the data and LCD OFF): G 37 m/L.	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Oxygen Probe Measurement	Auto with varia 0 to 10 to 8 Sa	temperature corbible between 0 to 60 °C . nd, 22 mm Dia. : silt probe (Condi	x 120 mm lengt uctivity probe). ype oxygen prob 0 to 2	e with	N
URCB-02 w Connect th USB-01 win 0 to 50 €. Less than 83 * Alkaline o (UM3, A4 adapter i Normal oper data and LC Approx. L When SD cc Backlight is Approx. L * .If LCD ba consumpi	in gotional R5232 cable If get the R5232 pilug, in optional USB cable get the USB plug. When the USB plug. R.H. heavy duty DC 1.5 V battery X6 PCS, or equivalent. pter input. (AC/DC power optional). Storn (WG SD card save) Backlight is OFF): C 14 mM. d save the data and LCD FFF):	Temperature Compensation Probe Operating Temperature Probe Dimension Optional accessories D. Dissolved of Oxygen Probe Messurement 8 Range	Auto with wariarian of to	temperature corbite between 0 tr 60 °C. Ind, 22 mm Dia.: Ind, 22	x 120 mm lengt uctivity probe). ype oxygen prob 0 to 2 0 to 1 0 to 5	e with 20.0 mg/l 00.0 %.	N
URCB-02 w Connect th USB-01 wil 0 to 50 €. Less than 8 ² *.Alkaline o (UM3, A ⁴ *.DC 9V ada adapter is Normal oper data and LC Approx. L When SD c Backlight is Approx. L *.If LCD ba consump 12 mA. 489 g/1.08 l	**reptional R5232 cable	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Oxygen Probe Measurement	Auto with variation of the company o	temperature cor bile between 0 tr 60 °C. Ad, 22 mm Dia. did, 22 mm Dia. conal, polarographic ty obved Oxygen pen in Air	0 5.0% per C. x 120 mm lengt uctivity probe). ype oxygen prob b to 2 b to 1 c 1.0 m b.1 m b.1 m	e with 10.0 mg/L 100.0 %. 60 ℃.	N
WCB-02 w Connect th USB-01 wil 0 to 50 ℃. Less than 83 *.Alkaline o (UM3, A4 *.DC 9V ad adapter is Normal oper dat and LC Approx. L When SD te Backlight is Approx. L 2 mA. 489 g1.08 1 177 x 68 x 4 (7.0 x 2.7 x 1)	roptional R5232 cable If get the R523 plug. roptional USB cable get the USB plug. % R.H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent. pter input. (ACPC power optional). attion (w/o 5D card save c 14 mA. rd save the data and LCD FFF): C 23 mA. klight on, the power on will increase approx. B. mm j mm j nich) 9 inch)	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Doygen Probe Measurement & Range Resolution Accuracy	Auto with variation of to	temperature corbible between 0 tr 60 °C . and, 22 mm Dia.: and, 22 mm Dia.: and, polarographic ty polarographic ty blved Oxygen perature solved Oxygen	vec 5.0% per C x 120 mm lengt x 120 mm lengt ype oxygen prob b to 2 b to 5 51.m 51.1 % 61.1 %	e with 0.0 mg/L 00.0 %. i0 °C. ig/L. io O2 . img/L.	N
WCB-02 w Connect th USB-01 wil 0 to 50 ℃. Less than 83 *.Alkaline o (UM3, A4 *.DC 9V ad adapter is Normal oper dat and LC Approx. L When SD cc Backlight is Approx. L *.If LCO 12.7 × 68 × 4 (7.0 x 2.7 x 1 * Instructio * Hard carr	roptional RS232 cable If get the RS23 plug, optional USB cable get the USB plug. % R.H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent. pter input. (AC/DC power optional). attorn (w) 5D card save DBacklight is OFF): C 37 mA. rd save the data and LCD FF): C 37 mA. stight on, the power on will increase approx. B. mm on mill increase approx. B. mm on mill increase approx. B. mm on mill increase approx. Description PC manual	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Assarcement & Range Resolution Accuracy (23±5°C)	Auto with varieties of to	temperature contible between 0 to 60 °C. ad, 22 mm Dia.: ad, 22 mm Dia.: ald, 22 mm Dia.: bit probe (Condi polarographic ty polarographic ty polarographic ty polarographic per in Air perature per	vpe oxygen prob to 5.0% per C. x 120 mm lengt uctivity probe). b to 2 to 5.0 p to 5 p to 5 p to 5 p to 5 p to 6 p to 1,1 p to 5 p to 6 p to 6 p to 6 p to 7 p to 8 p to 6 p to 6 p to 7 p to 8 p to 6 p to 7 p to 8 p to 8 p to 9	e with 20.0 mg/L 00.0 %. o °C. g/L. o 02	(liter).
WCB-02 w Connect th USB-01 wil 0 to 50 C. Less than 83 * Alkaline o (UM3, A4 * DC 99 val dat and LC Approx. L When SD cc Backlight is Approx. L * Jf LO 90 177 x 68 x 4 (7.0 x 2.7x 1 * Instructio Hard carr Conductiv CDP8-03.	in get the RS232 cable If get the RS232 plug, optional USB plug, Property Property	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and probe an	Auto with varieties of to	temperature corbite between 0 tr 60 °C. ad, 22 mm Dia. di typobe (Condi di typobe (C	o 5.0% per C. x 120 mm lengter x 120 mm lengter pe oxygen prob b to 2 b to 5 0.1 m 0.1 % c 0.4 % b 0.7 % b 0.5 % c 0.4 % c 0.7 % c 0.7 % c 0.4 % c 0.7	e with 0.0 mg/L 00.0 %. ig/L. 6 O2	. (liter).
WCB-02 w Connect th USB-01 wil 0 to 50 C. Less than 83 * Alkaline o (UM3, A4 * DC 99 val dat and LC Approx. L When SD cc Backlight is Approx. L * Jf LO 90 177 x 68 x 4 (7.0 x 2.7x 1 * Instructio Hard carr Conductiv CDP8-03.	in gotional R5232 cable If get the R5232 plug, optional USB rable get the USB plug. No. No. No.	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Oxygen Probe Measurement & Range Resolution Accuracy (23±5°C) Probe Compensation & Adj.	Autowith with water of the control o	temperature contible between 0 to 60 °C . and 22 mm Dia. 22 mm Dia. 22 mm Dia. 23 mm Dia. 24 mm Dia. 25 mm Dia. 26 mm Dia. 26 mm Dia. 26 mm Dia. 26 mm Dia. 27 mm Dia. 27 mm Dia. 27 mm Dia. 28 mm Di	o 5.0% per C. x 120 mm lengter pe oxygen prob b to 5 b to 5 1.1 m 1.1 m 1.2 m 1.5 m	e with 10.0 mg/L	(liter).
WCB-02 w Connect th USB-01 wil 0 to 50 C. Less than 85 * Alkaline o (UM3, A4 * .DC 9V ad adapter is Normal oper data and LC Approx. L When SD cs Backlight is Approx. L 1: If LCD ba consump 12 mA. 489 g/1.081 177 x 68 x 4 (7.0 x 2.7 x i) iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	in gotional RS232 cable If get the RS232 plug, optional USB clube get the USB plug. % R.H. heavy duty DC 1.5 V battery) x 6 PCs, or equivalent. pter input. (AC/DC power optional V.) beta preventional v. Backlight is 0FF): C 14 mA. d save the data and LCD FF): C 37 mA. Skilght on, the power on will increase approx. B. The manual. The power of the province o	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Oxygen Probe Resolution Accuracy (23±5°C) Probe Compensation & Adj. Probe Weight Probe Size	Autowith with with with with with with with	temperature contible between 0 to 60 °C. and, 22 mm Dia. 2 mm Dia. 3 mm Dia	o 5.0% per C. x 120 mm lengtper cutivity probe). ype oxygen prob 0 to 5 0.1 m 0.1 m 0.1 to 5 0.0 to 5 0.1 m 0.1 to 5	e with 10.0 mg/L	. (liter).
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WCB-02 w Connect th USB-01 win 0 to 50 C. Less than 88 * Alkaline o (UM3, A/ * .DC 9V ad adapter is Normal oper data and LC Approx. L. When SD cs Backlight is Approx. L. * .If LCD ba consumpi 12 mA. 489 g/1.08 I 177 x 68 x 4 (7.0 x 2.7 x 1) * Instruction Hard carr Conductiv CDPB-03. * PH electro * ATC (Aut Probe) pH 7 buff p H 4 buff Conductiv Conductiv	## optional #\$232 cable ## of ## o	Temperature Compensation Probe Operating Temperature Probe Dimension Optional probe and accessories D. Dissolved of Probe Resolution Accuracy (23±5°C) Probe Compensation & Adj. Probe Size Optional	Autowith with variation of to the control of the co	temperature con tible between 0 to 60 °C. and, 22 mm Dia	o 5.0% per C. x 120 mm lengter pro oxygen prob b to 2 b to 3 b to 5 c 1.1 % b 0.1 % b 0.1 % b 0.1 % c 0.4 % b 0.1 % c 0.4 % c 0.5 % c 0.4 % c 0.5 % c 0.5 % c 0.6 % c	we with 10.0 mg/l 10.0 0.0 %. 10 °C.	er ed)OXPB-11
on the least denie least denie least de la contraction de la contr	10 us/2 mS/20 mS/20 11 os 20 us/2 mS/20 mS/20 12 os 20 us/20 13 os 20 us/20 14 os 20 us/20 15 os 20 us/20 16 us/20 16 us/20 17 os 20 us/20 17 os 20 us/20 18	JOUNG TO MES AND MES A	JOLIS/2 mS/200 mS. 10 10 20 mg/L salt (% weight). P. (CO/TDS/Salt, Dissolved Oxygen and A) x 6 PCs or DC 9V adapter in. In can select PH or ORP. It can select ATC or manual temperature To an make the auto calibration for pH 10 or other value. Baurement can select Us/mS or TDS saurement can select Temp. Coefficient solution. Luctivity measurement. In meter use the polar graphic type this themperature sensor, high precision or Dissolved Oxygen (DO) and saurement. Inved oxygen probe, probe head can Do bottle. In "9 s SALT " & "Mountain Height" line adjustment. Leasy for operation of different wirronment. Size water conditioning, aquariums, attcheries, food processing, poratory, paper industry, plating control, school & college, water emory card Datalogger, it Built-in Clock all time data recorder, sampling time set noot far software, after execute take away the SD card from the in the SD card into the computer, the all the measured value with tion (year/month/date/ ond) to the Excel directly, then he further data or graphic selves. 1: 1 GB to 16 GB. Licution on enchip of microprocessor LSI circuit. At 1.5 Y) x 6 batteries or DC 9V adapter. OMPUTER interface. Probe Onductivity/TDS(Total Dissolved Solids) Dissolved Oxygen Salt Auto I sect to 8 hour 59 min, 59 sec. Be child sanguagement and sect the 1 to 99 position (Location) no. Sect the sampling time to 0 second. But memory data may less. Manual Push the data logger button once will save data one time. Be sampling time and set to 1 second, but memory data may less. Manual Push the data logger button once will save data one time. Be set the sampling time to 0 second. Button on enchip of microprocessor LSI circuit. Conductivity/TDS(Total Dissolved Solids) Dissolved Oxygen Sol memory card format. Set dock time (Year)Montypote. Be set possible time to compensation value and the set of the sampling time to 0 second. Be set the sampling time to 0 second. Button on the set of the sampling time to 0 second. Button on the set of the sampli	Solid Section (1997)	Probe-filling Electrode. Probe-filling Electrode. Probe-filling Electrode. Probe-filling Electrode. Probe-filling Electrode. Properties of the probe	Fober-filing Electrolve	Probe-filling Electrolyte Prob-filling Electrolyt

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PATENT

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