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

pH/ORP, DO, CD/TDS, Salt Model : WA-2017SD ISO-9001, CE, IEC1010







DO (OXPB-11 ((optional) (

CD/TDS/Salt CDPB-03 (included)



UKAS DOS



The Art of Measurement

SD Card real time data logger pH/ORP, DO, CD/TDS, SALT METER Model : WA-2017SD

FEATURES									
* One meter for mult PH/ORP, CD/TDS, I	Optional Accessories		* Oxygen probeOXPB-11 * Spare Probe head with Diaphragm set						
* pH : 0 to 14.00 pH, ORP : ± 1999 mV. * Conductivity : 200 uS/2 mS/20 mS/200 mS. * Dissolved oxygen : 0 to 20.0 mg/L.					OXHD-04 Probe-filling ElectrolyteOXHD-03 OXEL-03 OXP ElectrodeORP-14				
 Salt : 0 to 12 % sa Optional PH, ORP, 			SD memory card AC to DC 9V adapter.						
ATC probe. * DC 1.5V (UM-3, A/			USB cable, RS232 cable	USB-01. e, UPCB-02.					
 PH meter function PH measurement c 			Data Acquis	sition softwa	are, SW-U80	1-WIN.			
adjustment. * PH measurement c			ELECTRICAL S	PECIF	ICATIONS	(23±5℃	;)		
	urement can s	select uS/mS or TDS	A. PH/mV						
 Conductivity measurement so ATC for the conduction 	PH Electrode		ptional,	o with PNC co	enector				
 * Dissolved oxygen n oxygen probe with 	Measurement	PH	1	rode with BNC connector. 0 to 14 PH -1999 mV to 1999 mV					
measurement for Dissolved Oxygen (DO) and temperature measurement.			Input Impedance		12 ohm				
 Heavy duty di connect with 	Temperature Compensatio	n	Manual	push button on front panel.					
DO use the automatic Temp. compensation. DO meter build in " % SALT " & " Mountain Height "			for pH measurement		utomatic ATC)	probe (TP-0	onal temperatu 7)	ure	
* Separate probe	pH	_			oints calibratio	on			
measurement e * Wide applications: beverage, fish hato	Calibration Optional probe and	*	ensure the best linearity and accuracy. PH electrodePE-03, PE-11, PE-01, PE06HD PE-04HD, PE-05T, PE-03K7						
photography, labor industry, quality co	accessories *		ATC (automatic temperature probe)TP-07						
conditioning.		logger, it Built-in Clock	-	*	pH 7 buffer s	olution		PH-07	
from 1 sec to 8 hou	ur 59 min. 59	corder , sampling time set sec.		*					
* Manual datalogger is available (set the sampling time to 0), during execute the manual datalogger			Measurement PH	0	ange to 14 PH	Resolution 0.01 PH	± (0.02	PH + 2 d)	
function, it can set the different position (location) No. (position 1 to position 99). * Innovation and easy operation, computer is not			mV * PH accuracy is b		to 1999 mV calibrated met	1 mV ter only.	± (0.5%	6 + 2 d)	
need to setup extra	a software, af	ter execute	B. Conductivit	у					
datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with			Conductivity probe Function		Optional, Carbon rod electrode for long life. * Conductivity (uS, mS)				
the time informatio	it can down load the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, then				* Conductivity (uS, mS) * TDS (Total Dissolved Solids, PPM) * Temperature (°C, °F)				
user can make the analysis by themse	further data		Temperature Compensation		Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor				
* SD card capacity : * LCD with green light	1 GB to 16 G ht backlight, e	easy reading.	Probe		variable between 0 to 5.0% per C. 0 to 60 °C.				
* Can default auto p * Data hold, record r	ower off or m max. and min	anual power off. . reading.	Operating Temp. Probe Dimension		Round, 22 mm Dia. x 120 mm length.				
 Microcomputer circuit, high accuracy. Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter. 			Optional probe and		Conductivity probeCDPB-03 1.413 mS Conductivity Standard SolutionCD-14				
* RS232/USB PC COM		face.	accessories				<u></u>	CD-14	
GENERAL SPECIFI Circuit		e-chip of microprocessor LSI	1. Conductivity (Range 200 uS	Me	asurement 200.0 uS		Resolution 0.1 uS	Accuracy	
Display	LCD size :	52 mm x 38 mm reen backlight (ON/OFF).	2 mS 20 mS	0.2 b	200.0 us 20.00 mS 20.00 mS		0.001 mS 0.01 mS	± (2% F.S.+10 * F.S	
Measurement Function	PH/ORP	y/TDS(Total Dissolved Solids)	200 mS * Temperature Co.	20 to	200.0 mS		0.1 mS	full scale	
		Dissolved Oxygen Salt			℃ (32 - 140 iable between				
Datalogger Sampling Time	Auto	1 sec to 8 hour 59 min. 59 sec. @ Sampling time can set to 1 second,	* The accuracy is s * mS - milli Simens	pecified	under measur				
Setting range	Manual	but memory data may loss. Push the data logger button	2. TDS (Total Di						
		once will save data one time. @ Set the sampling time to 0 second.	200 PPM 0 t		easurement Resolution Accuracy 0.132 PPM 0.1 PPM				
		U secona. @ Manual mode, can also select the 1 to 99 position (Location) no.	2,000 PPM 20,000 PPM 200,000 PPM	1,320	to 1,320 PPM 0 to 13,200 PF 00 to 132,000		1 PPM 10 PPM 100 PPM	± (2% F.S.+1c * F.S full scale	
Memory Card Advanced	* SD memo	y card. 1 GB to 16 GB. rv card Format	* Temperature Con Automatic from	npensati	ion :			Tuli Scale	
setting	Hour/Minu	 Set clock time (Year/Month/Date, Hour/Minute/ Second) Set sampling time Auto power OFF management Set beep Sound ON/OFF 		compensation factor variable between 0 to 5.0% per C . * The accuracy is specified under measurement value \leq 66,000 PPM.					
	* Auto pow			3. Temperature					
	* Decimal p * Set tempe	oint of SD card setting rature unit to °C or °F	Function Mea		to 60 °C 0.1 °C ±		Accuracy ± 0.8 ℃		
	* Set DO he	It% compensation value sight (meter) compensation value sight (feet) compensation value	'F 32 ' *@23±5℃		F to 140 °F 0.1 °F ± 1.5		± 1.5 °F		
	* Set CD ter * Set CD to	nperature compensation factor TDS or TDS to CD, CD only	C. Salt		Optional				
Data Hold	* Set pH ma Freeze the	* Set pH manual Temp. compensation value Freeze the display reading.			Optional, Carbon rod electrode for long life.				
Memory Recall Sampling Time	Maximum 8 Approx. 1 s	& Minimum value. second.	probe Measurement Range		0 to 12 % salt (% weight).				
of Display Data Output		B PC computer interface.	Resolution Accuracy		0.01 % salt. 0.5 % salt value				
	UPCB-02	the optional RS232 cable will get the RS232 plug. the optional USB cable	Temperature Compensation		* F.S. : full scale. Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor				
Operating		USB-01 will get the USB plug.			variable between 0 to 5.0% per C. 0 to 60 °C.				
Temperature Dperating	Less than 85% R.H.		Operating Temperature						
Humidity Power Supply		* Alkaline or heavy duty DC 1.5 V battery		Probe Dimension Optional		Round, 22 mm Dia. x 120 mm length.			
	(UM3, A *,DC 9V ac	(UM3, AA) x 6 PCs, or equivalent. *,DC 9V adapter input. (AC/DC power			* Salt probe (Conductivity probe)CDPB-03				
Power Current	adapter is optional). Normal operation (w/o SD card save		accessories D. Dissolved of		L	1			
	Approx.	data and LCD Backlight is OFF) : <u>Approx. DC 14 mA.</u> When SD card save the data and LCD		xygen		I			
	Backlight is	When SD card save the data and LCD Backlight is OFF) : Approx. DC 37 mA.		Oxygen Probe Measurement		Optional, The polarographic type oxygen probe with Dissolved Oxygen 0 to 20.0 mg/L (liter).			
	* ,If LCD b	DC 37 mA. acklight on, the power ption will increase approx.	Measurement & Range		Oxygen in Air Temperature	n in Air 0 to 100.0 %.			
Veight	12 mA. 489 g/1.08		Resolution		Dissolved Oxy Oxygen in Air	Dxygen 0.1 mg/L.			
Dimension	177 x 68 x	177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch)			Temperature Dissolved Oxy		0.1 ℃. n ± 0.4 mg/L.		
Accessories ncluded	 Instructi Hard car 	on manual1 PC rrying case (CA-06)1 PC	Accuracy (23±5℃)		Oxygen in Air Temperature		± 0.7% O ± 0.8 ℃/1	2. .5 °F.	
	* Conductivity/TDS probe,Salt probe CDPB-031 PC		Probe Compensation		Temperature		0 to 50 ℃, Automatic		
Optional Accessories	* PH electr	rodePE-03, PE-11, PE-01, PE-06HD,	& Adj.		Salt 0 to 50 % Salt Height (M. T.) 0 to 8900 meter				
		PE-04HD, PE-05T, PE-03K7 Itomatic Temperature	Probe Weight Probe Size		335 g/0.74 LB (batteries & probe included) 190 mm x 28 mm Dia. (7.5" x 1.1" Dia.)				
	* pH 7 but		Optional Accessories		* Oxygen probeOXPB-11 * Spare Probe head with Diaphragm set OXHD-0/ * Probe-filling ElectrolyteOXEL-03				
	* Conduction	ffer solutionPH-04 ivity/TDS probe,							
	* 1.413 m	DeCDPB-03 S Conductivity Standard							
PATENT				M 3580	70 M 359043				

Germany: Nr. 20 2008 016 337.4 JAPAN : 3151214 U.S.A. : Pending
* Appearance and specifications listed in this brochure are subject to change without notice.

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