SD Card, real time data logger, Patent

## SOUND LEVEL METER

## Model : SL-4023SD

*ISO-9001, CE, IEC1010* 





The Art of Measurement

## SD Card real time data logger SOUND LEVEL METER Model : SL-4023SD

FEATURES
* Main functions are designed to meet IEC 61672 class 2.
* A & C weighting networks comply with standards.
* 0.5" standard microphone head.
* Time weighting (Fast & Slow) dynamic characteristic
modes.
* Build External calibration VR.
* Auto range & Manual range selection.
* Available for external calibration adjustment.
* Condenser microphone for high accuracy & long-term
stability.
* Memory function to store the Max. & Min. value.
* Hold and Peak Hold functions.
* Real time SD memory card Datalogger, it Built-in Clock
and Calendar, real time data recorder, sampling time set
from 1 second to 3600 seconds.
<ul> <li>Manual datalogger is available (set the sampling</li> </ul>
time to 0 second ), during execute the manual datalogger
function, it can set the different position (location) No.
(position 1 to position 99).
* Innovation and easy operation, computer is not need to
setup extra software, after execute 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 the time information (year/month/date/
hour/minute/second ) to the Excel directly, then user can
make the further data or graphic analysis by themselves.
* SD card capacity : 1 GB to 16 GB.
<ul> <li>LCD with green light backlight, easy reading.</li> </ul>
* 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.
* Heavy duty & compact housing case.

Circuit	Custom one-chip of microprocessor LSI	
	circuit.	
Display	LCD size : 52 mm x 38 mm	
.12	LCD with green backlight ( ON/OFF ).	
Measurement	30 - 130 dB.	1
Range		
Resolution	0.1 dB.	
Function	dB (A & C frequency weighting ),	
	Time weighting (Fast, Slow),	
	Peak hold, Data hold	
	Record (Max., Min.).	
Accuracy	Characteristics of " A " frequency	
(23 ± 5 ℃)	weighting network meet IEC 61672	
(25 ± 5 ℃)	class 2.	Γ
	Under 94 dB input signal, the accuracy	
	are :	
	31.5 Hz ± 3.5 dB	
	$63 \text{ Hz} \pm 2.5 \text{ dB}$	
	$125 \text{ Hz} \pm 2.0 \text{ dB}$	
	250 Hz ± 1.9 dB	
	$500 \text{ Hz} \pm 1.9 \text{ dB}$	
	$1 \text{ K Hz} \pm 1.4 \text{ dB}$	
	$2 \text{ K Hz} \pm 2.6 \text{ dB}$	
	4 K Hz ± 3.6 dB	
	$4 \text{ K} \text{ Hz} \pm 5.6 \text{ dB}$ 8 K Hz $\pm 5.6 \text{ dB}$	
	8 K HZ ± 5.0 UB	
	Remark :	
	The above spec. are tested under the	
	environment RF Field Strength less	
	than 3 V/M & frequency less than 30	
	MHz only.	
Frequency	Characteristics of A & C.	
Weighting	characteristics of A & C.	
Network	A weighting :	
NUTVOIN	The characteristic is simulated as "Human	
	Ear Listing" response. Typical, if making	
	the environmental sound level	
	measurement, always select to A	
	weighting.	
	weighting.	
	C weighting	
	The characteristic is near the "FLAT"	
	response. Typical, it is suitable for	
	checking the noise of machinery (Q.C.	
	check) & knowing the sound pressure level of the tested equipment.	
Data hold		-
Data hold Peak hold	To freeze the measurement value.	-
I CON HUIU	To keep the peak (max.) measurement value.	1

	Time	Fast - t=	200 ms
	weighting		range is simulated the human ear
-			
	(Fast & Slow)		nse time weighting.
		Slow - t	= 500 ms
		* "Slow'	' range is easy to get the average
			s of vibration sound level.
	Dongo coloctor	Auto rom	
_	Range selector		ge: 30 to 130 dB.
		Manual r	
		3 rang	e, 30 to 80 dB, 50 to 100 dB,
		80 to 7	130 dB, 50 dB on each step,
			ver & under range indicating.
	E		
	Frequency		,000 Hz.
	Microphone	Electric c	ondenser microphone.
	type		
	Microphone	Out size	12.7 mm DIA. ( 1/2 inch).
	size	,	
	Calibration VR	م مناما ام	uternal collibration VD . coou to
			external calibration VR, easy to
			on 94 dB level by screw driver.
		* Calibra	ited via external SOUND
		CALIBI	RATOR (SC-941, optional).
	Calibrator		ruel & kjaer), MULTIFUCTION
			IC CALIBRATOR 4226.
	Datalagger		
	Datalogger	Auto	1 second to 3600 seconds
	Sampling Time		@ Sampling time can set to 1 second,
	Setting range		but memory data may loss.
		Manual	Push the data logger button
1			once will save data one time.
$\neg$			
_			@ Set the sampling time to
			0 second.
			@ Manual mode, can also select the
7			1 to 99 position (Location) no.
	Memory Card	SD mem	ory card. 1 GB to 16 GB.
-	Advanced		
$\neg$			k time (Year/Month/Date,
	setting		inute/ Second )
		* Decima	point of SD card setting
			wer OFF management
			p Sound ON/OFF
			npling time
		* SD men	nory card Format
	Over Indication	Show " -	
	Data Hold		ne display reading.
	Memory Recall	Maximun	n & Minimum value.
	Sampling Time		1 second.
$\neg$	of Display		
		D0 000 //	
	Data Output		JSB PC computer interface.
		* Conned	ct the optional RS232 cable
		LIPCB-0	<i>D2 will get the RS232 plug.</i>
			ct the optional USB cable
			ст пе орнопат озв саре
		USB-01	1 will get the USB plug.
	AC output		
	AC output	AC 0.5 V	rms corresponding to each
	AC output	AC 0.5 V range ste	rms corresponding to each
		AC 0.5 V range ste * Output	rms corresponding to each ep. t <i>impedance : 600 ohm.</i>
	AC output Power off	AC 0.5 V range ste * Output	rms corresponding to each
		AC 0.5 V range ste * Output Auto shu	rms corresponding to each ep. • <i>impedance : 600 ohm.</i> t off saves battery life or
	Power off	AC 0.5 V range ste * Output Auto shu manual c	rms corresponding to each pp. <i>t impedance : 600 ohm.</i> t off saves battery life or off by push button.
	Power off Operating	AC 0.5 V range ste * Output Auto shu	rms corresponding to each pp. <i>t impedance : 600 ohm.</i> t off saves battery life or off by push button.
	Power off Operating Temperature	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °(	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or ff by push button. C.
	Power off Operating Temperature Operating	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °(	rms corresponding to each pp. <i>t impedance : 600 ohm.</i> t off saves battery life or off by push button.
	Power off Operating Temperature	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °(	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or ff by push button. C.
	Power off Operating Temperature Operating Humidity	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar	rms corresponding to each ep. <i>impedance : 600 ohm.</i> t off saves battery life or off by push button.
	Power off Operating Temperature Operating	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less than * Alkalin	rms corresponding to each pp. <i>t impedance : 600 ohm.</i> t off saves battery life or off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery
	Power off Operating Temperature Operating Humidity	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3,	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. h 85% R.H. e or heavy duty DC 1.5 V battery AA ) x 6 PCs, or equivalent.
	Power off Operating Temperature Operating Humidity	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * .Alkalin ( UM3, * .DC 9V	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 55% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. ( AC/DC power
	Power off Operating Temperature Operating Humidity	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * .Alkalin ( UM3, * .DC 9V	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. h 85% R.H. e or heavy duty DC 1.5 V battery AA ) x 6 PCs, or equivalent.
	Power off Operating Temperature Operating Humidity	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less than ( UM3, * .DC 9V adapte	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional ).
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less than ( UM3, * .DC 9V adapte Normal c	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration ( w/o SD card save LCD Backlight is OFF) :
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and <i>Appro.</i>	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power rr is optional). operation ( w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA.
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and <i>Appro.</i>	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration ( w/o SD card save LCD Backlight is OFF) :
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 ° Less thar * Alkalin ( UM3, * .DC 9V adapte Normal c data and <i>Appro</i> . When SE	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional ). peration ( w/o SD card save LCD Backlight is OFF) : x, DC 8.5 mA. o card save the data but and
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 ° Less than ( UM3, * .DC 9V adapte Normal c data and <i>Appro</i> , When SC LCD Bacl	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional ). peration ( w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> O card save the data but and dight is OFF) :
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Outpun Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and <i>Appro.</i> When SE LCD Back <i>Appro.</i>	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. o card save the data but and dight is OFF) : x. DC 30 mA.
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual C 0 to 50 °C Less thar * Alkalin (UM3, * DC 9V adapte Normal C data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i>	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> o card save the data but and clight is OFF) : <i>x. DC 30 mA.</i> <i>backlight on, the power</i>
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Output Auto shu manual C 0 to 50 °C Less thar * Alkalin (UM3, * DC 9V adapte Normal C data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i>	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. o card save the data but and dight is OFF) : x. DC 30 mA.
	Power off Operating Temperature Operating Humidity Power Supply	AC 0.5 V range ste * Outpun Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * .DC 9V adapte Normal c data and <i>Appro.</i> When SE LCD Back <i>Appro.</i>	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). piperation ( w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. 0 card save the data but and dight is OFF) : x. DC 30 mA. backlight on, the power mption will increase approx.
	Power off Operating Temperature Operating Humidity Power Supply Power Current	AC 0.5 V range ste * Output Auto shu manual C 0 to 50 °C Less thar * Alkalin ( UM3, * .DC 9V adapte Normal C data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i> <i>consul</i> 14 <i>mA</i>	rms corresponding to each pp. <i>impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. o card save the data but and clight is OFF) : x. DC 30 mA. backlight on, the power mption will increase approx.
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight	AC 0.5 V range ste * Output Auto shu Mato shu tess than ( UM3 * .DC 9V adapte Normal c data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i> <i>consul</i> 14 <i>mA</i> 489 g/1.1	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 30 mA.</i> backlight on, the power mption will increase approx. 08 LB.
	Power off Operating Temperature Operating Humidity Power Supply Power Current	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * <i>.If LCD consul</i> 14 mA 489 g/1.1 245 x 68	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery .AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. o card save the data but and dight is OFF) : x. DC 30 mA. backlight on, the power mption will Increase approx. D8 LB. x 45 mm.
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * <i>.If LCD consul</i> 14 mA 489 g/1.1 245 x 68	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. abs% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 30 mA.</i> backlight on, the power mption will increase approx. 08 LB.
	Power off Operating Temperature Operating Humidity Power Supply Power Current Power Current Weight Dimension	AC 0.5 V range ste * Outpun Auto shu manual C 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal C data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i> <i>consul</i> 14 <i>mA</i> 489 g/1.1 245 x 68 ( 9.6 x 2	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). peration (w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : <i>x. DC 8.5 mA.</i> 10 card save the data but and dight is OFF) : 10 card save the data but and 10 card sa
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories	AC 0.5 V range ste * Outpun Auto shu manual C 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal C data and <i>Appro.</i> When SE LCD Back <i>Appro.</i> * . <i>If LCD</i> <i>consul</i> 14 <i>mA</i> 489 g/1.1 245 x 68 ( 9.6 x 2	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery .AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration (w/o SD card save LCD Backlight is OFF) : x. DC 8.5 mA. o card save the data but and dight is OFF) : x. DC 30 mA. backlight on, the power mption will Increase approx. D8 LB. x 45 mm.
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * .DC 9V adapte Normal c data and <i>Appro.</i> * . <i>If LCD</i> <i>consul</i> 14 <i>mA</i> 489 g/1.1 245 x 68 ( 9.6 x 2 * Instruct	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 30 mA.</i> <i>backlight on, the power</i> <i>mption will Increase approx.</i> 208 LB. x 45 mm. .7x 1.9 inch ). tion manual
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD consul 14 mA 489 g/1.1 245 x 68 ( 9.6 x 2 * Sound	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. ( AC/DC power r is optional ). peration ( w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 30 mA.</i> <i>backlight on, the power</i> <i>mplower</i> <i>mplower</i> <i>backlight on, the power</i> <i>mplower</i> <i>x. 10 30 mA.</i> <i>backlight on, the power</i> <i>mplower</i> <i>x. 10 30 mA.</i> <i>backlight on, the power</i> <i>x. 10 30 mA.</i> <i>backlight on, the power</i> <i>x. 10 30 mA.</i> <i>backlight on, the power</i> <i>x. 10 30 mA.</i> <i>x. 45 mm.</i> <i>x. 19 inch</i> ). ction manual
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included	AC 0.5 V range ste * Output Auto shu manual c 0 to 50 °C Less thar * Alkalin ( UM3, * DC 9V adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD consul 14 mA 489 g/1.1 245 x 68 ( 9.6 x 2 * Sound	rms corresponding to each pp. <i>Impedance : 600 ohm.</i> t off saves battery life or ff by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). peration ( w/o SD card save LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> 0 card save the data but and dight is OFF) : <i>x. DC 30 mA.</i> <i>backlight on, the power</i> <i>mption will Increase approx.</i> 208 LB. x 45 mm. .7x 1.9 inch ). tion manual
	Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	AC 0.5 V range ste * Outpun Auto shu manual C 0 to 50 °C Less thar * Alkalin (UM3, * DC 9V adapte Normal C data and Appro. When SE LCD Back Appro. * .If LCD consul 14 mA 489 g/1.1 245 x 68 (9.6 x 2 * Instruc * Sound * Sound	rms corresponding to each p. <i>Impedance : 600 ohm.</i> t off saves battery life or off by push button. C. a 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). Deard save the data sut LCD Backlight is OFF) : <i>x. DC 8.5 mA.</i> Deard save the data but and dight is OFF) : <i>x. DC 30 mA.</i> <i>backlight on, the power</i> <i>mption will increase approx.</i> D8 LB. x 45 mm. .7x 1.9 inch ). tion manual
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 PATENT
 CHINA : ZL 2008 2 0189918.5
 ZL 2008 2 0189917.0

 Germany : Nr. 20 2008 016 337.4
 JAPAN : 3151214

 \* Appearance and specifications listed in this brochure are subject to change without notice.
 PATENT TAIWAN : M 358970 M 359043 U.S.A. : Pending