SD card real time data recorder + Temp., 6,000 counts

## MULTIMETER + LCR

Model: DM-9962SD *ISO-9001, CE, IEC1010* 











The Art of Measurement

## MULTIMETER, + LCR



Model: DM-9962SD

_	IVIOGEI : DIVI-99623D
F	EATURES
*	Real time data logger, save the data into the micro SD memory
	card and can be downloaded to the Excel, extra software is no
	need.
*	Real time data logger, built-in clock ( year/ month/date/hour
	minute/second ), sample time 1 to 3600 seconds
	Meet IEC 1010 CAT III 1000 V safety requirement.
	LCD with green light backligh, easy reading.
	6000 counts A/D, high resolution.
	Accepts micro SD memory cards of up to 32 GB capacity.
*	Multi function measurement. DCV, ACV, DCA, ACA,
	Resistance, Capacitance, Inductance, Frequency,
	Temperature, Diode, Continuity beeper.
*	Max. & Min. measurement value with recall.
*	Relative, Data hold.
*	Auto range with manual range selection.
*	Temperature measurement possibility.
ķ	VAHz button, when execute the ACV, ACA function also
	can measure the frequency of signal.
*	Both 10 A, mA, uA current are build fuse for safety
	consideration.
*	10 M ohm impedance for voltage circuit.
*	Operates from 9 V ( 006P, MIN1604 ) batteries.
*	Built-in overload protection for most ranges.
*	Photo couple RS 232 computer serial interface.
*	Uses durable, long-lasting components, enclosed in
	strong, light weight ABS-plastic housing.
*	Full line optional adapters : Clamp adapter,
	Tachometer adapter, Pressure adapter, Humidity
	Adapter, Sound level adapter, Anemometer adapter,
	Light adapter, EMF adapter.
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## GENERAL SPECIFICATIONS

GENERAL SPECIF			
Display	60 mm x 39.5 mm large LCD display		
Measurement			
	Continuity beeper, Capacitance, Inductance,		
	Frequency, Temperature.		
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		
	once will save data one time.		
	@ Set the sampling time to 0 second.		
Data error no.	$\leq$ 0.1% of total saved data max.		
micro SD card	1 GB to 32 GB		
Capacity			
A/D counts no.	6000 counts.		
Range selection	Auto range with manual range selecting.		
Special function	Relative measurement, Data hold,		
Data hold	To freeze the display reading on the		
	LCD display.		
Power On/Off	Auto power of or manual power off.		
management	The particular of the manual particular of the p		
Memory recall	Records Maximum & Minimum readings		
	with recall.		
Relative	To offset the measurement value.		
measurement			
VAHz button	When execute the voltage or current		
Vi ii ii buccoii	function also can measure the frequency		
	of signal.		
Data output	RS 232 PC serial interface, photo couple.		
Polarity	Automatic Switching, " - " indicates		
li Glarity	negative polarity.		
Zero adjustment	Automatic.		
Sampling time	Approx. 0.5 to 1 second.		
	Approx. 0.5 to 1 3ccold.		
Operating			
Operating Temp & humidity	0 °C to 50 °C (32 °F to 122 °F),		
Temp. & humidity	Max. 80% RH.		
	Max. 80% RH. 9 V ( 006P, MIN1604 )		
Temp. & humidity	Max. 80% RH.  9 V ( 006P, MIN1604 ) DC 9V adapter input		
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## ELECTRICAL SPECIFICATIONS (23 ± 5 $^{\circ}$ C)

Range	600.0 mV /6 V/60 V/600 V /1000 V
Resolution	0.1 mV /0.001V /0.01V /0.1V/1 V
Accuracy	± ( 0.5% + 2d 600 mV
	± (0.8% + 1d 6 V, 60 V, 600 V, 1000 V
Input impedance	10 M ohm.
Over load	600 mV range ± 500 DCV, 350 ACV
protection	other ranges ± 1000 DCV, 1000 ACV

AC Voltage (True RMS)			
Range	600.0 mV /6 V/60 V/600 V /1000 V		
Resolution	0.1 mV /0.001V /0.01V /0.1V/1 V		
Accuracy	± (1% + 2d)		
-	* Spec. are tested under 50/60 Hz.		
Input impedance	10 M ohm.		
Over load	600 mV range ± 500 DCV, 350 ACV		
protection	other ranges ± 1000 DCV, 1000 ACV		

DC Current, AC Current (True RMS)			
Range	10 A/6 A	/600 mA/60 mA/60	000 uA/600 uA
Resolution	0.01 A/0	.001 A/0.1 mA/0.0	1 mA/1 uA/0.1 uA
Accuracy		DCA	ACA
	600 uA	± (0.5 % + 2d)	± (1% + 7d)
	6000 uA	± (0.5 % + 2d)	± (1% + 7d)
	60 mA	± (0.5 % + 2d)	± (1% + 7d)
	600 mA	± (0.5 % + 2d)	± (1% + 7d)
	6 A	± (1.5 % + 2d)	± (1.5% + 2d)
	10 A	± (1.5 % + 2d)	± (1.5 % + 2d)
	* ACA sp	ec. are tested unde	er 50/60 Hz.
Over load	10A rang	e: 10A fuse.	
protection	uA, mA r	ange: 630 mA fus	e.

Diode (Forward	voltage, VF)
Range	2.9 V DC.
Accuracy	± (0.5 % + 2d )

Auto Range	600 pF/6 nF/60 nF/600	nF/6 uF/60 uF/600 uF
Resolution	0.1 pF/0.001 nF/0.01nF/0.1 nF/0.001 uF/	
	0.01 uF/0.1 uF	
	600 pF	± ( 2.5% + 5d )
Accuracy	6 nF/60 nF/600 nF/	± (1.5% + 5d)
	6 uF/60 uF	
	600 uF	± ( 2.5% + 5d )
Over load	± 30 DCV, 30 ACV.	
protection		
Test frequency	100Hz /1KHz /10KHz	
	* Auto frequency confi	iguration
Remark	Discharge capacitor be	fore testing.

Inductance				
Auto Range	600 uH/6 mH/60 mH/60	600 uH/6 mH/60 mH/600 mH/6 H/60 H/100 H		
Resolution	0.1uH/0.001mH/0.01 m	0.1uH/0.001mH/0.01 mH/0.1 mH/0.001 H/		
	0.01 H/0.1 H			
Test frequency	100Hz /1KHz /10KHz			
	* Auto frequency config	ruration		
	600 uH	± ( 2.5% + 5d )		
Accuracy	6 mH/60 mH/600 mH/	± (1.5% + 5d)		
-	6 H			
	60 H/100 H	± ( 2.5% + 5d )		

Frequency	
Range	600 Hz/6 KHz/60 KHz/600 KHz/6 MHz/20 MHz
Resolution	0.1 Hz/0.001 KHz/0.01 KHz/0.1 KHz/
	0.001 MHz/0.01 MHz
Accuracy	± (0.5% + 2d)
Sensitivity	Min. 1 V rms, Max. 5 V rms.

OHMS	
Range	600 Ω /6 ΚΩ /60 ΚΩ /600 ΚΩ /6 ΜΩ /60 ΜΩ
Resolution	0.1Ω /0.001 ΚΩ /0.01 ΚΩ /0.1 ΚΩ /0.001 ΜΩ / 0.01 ΜΩ
Accuracy	600 ohm: ± ( 1 % + 2d ) 6K/60K/600K/6 M: ± ( 1.5 % + 2d ) 60 M: ± ( 3 % + 5d )
Over load protection	± 350 DCV, 350 ACV.

Over load protection	± 350 DCV, 350 ACV.	
Continuity Rec	ner	
Continuity Bee	per	

Max. & Min. Measurement
During the operation can memorize the maximum and the
minimum measurement value.

Temperature	
Auto Range	-100.0 °C to 1200 °C to 1000 °C
Resolution	0.1 °C 1 °C
Accuracy	± (1% + 1 °C )
Temp. probe	The temperature probe ( TP-11 ) is the
	optional accessory.

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