Bench type, professional SD card real time data recorder LCR + MULTIMETER

Model : DM-9972SD











LUTRON ELECTRONIC

The Art of Measurement

Bench type, professional SD card real time data recorder

LCR + MULTIMETER

Model : DM-9972SD

DMM ELECTRICAL SPECIFICATIONS (23±5 °C)

DMM FEATURE				AL SPECIFICATION		Resistance(Z)			
		e the into the SD memory ed to the Excel, extra software	DC Voltage Range	600.0 mV /6 V/60 V	//600 V/ /1000 V	Range	Accuracy 100 Hz/120 Hz	Accuracy 1k Hz	
is no need.		eu to uie Excel, extra SUILWare	Resolution	0.1 mV /0.001V /0.0	01V /0.1V/1 V	60 Ω	± (1.5% + 5d		
Real time Data		uilt-in Clock (year/month/date/	Accuracy	600 mV	± (0.5% + 2d)	600 Ω	± (1.2% + 5d) ± (1.2% + 5d)	
hour/minute/s to 3600 second		npling time set from 2 seconds	Input impedance	6 V, 60 V, 600 V, 10 10 M ohm.	000 V ± (0.8% + 1d)	6000Ω 60 KΩ	± (1.2% + 5d ± (1.2% + 5d	$\pm (1.2\% + 5d)$ $\pm (1.2\% + 5d)$	
		able (set the sampling time to be	Over load		± 380 DCV, 380 ACV	600 KΩ	± (1.2% + 5d ± (1.2% + 5d	$\pm (1.2\% + 5d)$ $\pm (1.2\% + 5d)$	
0 second).			protection		1000 DCV, 1000 ACV	6000 kΩ	± (1.2% + 5d) ± (1.2% + 5d)	
		00 V ,CAT IV 600 V safety requirement. igh, easy reading.	AC Voltage (True	RMS		20 MΩ	± (2.0% + 5d) ± (2.0% + 5d)	
6000 counts A	VD, high res	olution.	Range	600.0 mV /6 V/60 V]			
		of up to 32 GB capacity. nt. DCV, ACV, DCA, ACA, Resistance,	Resolution Accuracy	0.1 mV /0.001V /0.0 ± (1% + 2d)	01V /0.1V/1 V	Range	Accuracy 10 kHz	Remark	
Frequency, Du	uty cycle, Did	de, Continuity beeper.	Accuracy	* Spec. are tested u	Inder 50/60 Hz.	60 Ω	± (1.5% + 5d) After calibration	
Max. & Min. m Relative, Data		value with recall.	Input impedance Over load		± 380 DCV, 380 ACV	600 Ω 6000Ω	± (1.2% + 5d ± (1.2% + 5d		
Auto range wit		inge selection.	protection		± 1000 DCV, 1000 ACV	60 KΩ	$\pm (1.2\% + 3d)$ $\pm (1.2\% + 5d)$		
		ute the ACV, ACA function also	DC Current AC C	ment (True DMC)		600 KΩ	± (1.2% + 5d ± (1.2% + 5d		
can measure t Both 10 A, mA		are build fuse for safety consideration.	Range	urrent (True RMS) 10 A/6 A/600 mA/60	0 mA/6000 uA/600 uA	6000 kΩ 20 MΩ	$\pm (3.0\% + 5d)$		
10 M ohm imp	bedance for v	voltage circuit.	Resolution	0.01 A/0.001 A/0.1	mA/0.01 mA/1 uA/0.1 uA				
Built-in overloa	ad protection	5V AA/UM-3 X 6 PCs) batteries. n for most ranges.	Accuracy	DC/ 600 uA ± (0	1.5 % + 2d) ± (1 % + 7d)		ons are under in b		
		outer serial interface. components, enclosed in strong, weight			1.5 % + 2d) ± (1 % + 7d) 1.5 % + 2d) ± (1 % + 7d)	* Don't apply v	oltage larger than :	30 V to input terminals	•
ABS-plastic ho	ousing.				$1.5\% + 2d$) $\pm (1\% + 7d)$ $\pm (1\% + 7d)$	-			_
		: Clamp adapter, Tachometer adapter,	1		.5 % + 5d) ± (1.5 % + 5d)	Capacitance (SER/PAL):D≦	0.1, 0.5V(rms)	
Anemometer a	adapter. Linh	y Adapter, Sound level adapter, it adapter, EMF adapter.			5 % + 2d) ± (1.5 % + 2d) ted under 50/60 Hz.	Range	Accuracy	Accuracy	
			Over load	10A range : 10A fus	ie.		100 Hz	120 Hz	
CR FEATURES	S		protection	uA, mA range : 630	mA fuse.	600 pF 6000 pF	± (3.5% + 5d ± (2.5% + 5d	$\pm (3.5\% + 5d)$ $\pm (2.5\% + 5d)$	
Real time Data	alogger, save	e the into the SD memory	Diode (Forward)	voltage, VF)		60 nF	$\pm (2.5\% + 5d)$ $\pm (2.0\% + 5d)$		
card and can b		ed to the Excel, extra software	Range	2.9 V DC.		600 nF	± (2.0% + 5d) ± (2.0% + 5d)	
is no need. Real time Data	alogger, it Ri	uilt-in Clock (year/month/date/	Accuracy	± (0.5% + 2d)		6000 nF 60 uF	± (1.5% + 5d ± (1.5% + 5d) ± (1.5% +5d)) ± (1.5% + 5d)	
hour/minute/s	second), san	npling time set from 2 seconds	Frequency			600 uF	± (1.5% + 5d) ± (1.5% + 5d)	
to 3600 seconds. * Manual datalogger is available (set the sampling time to be		Range Resolution		z/60 KHz/600 KHz/6 MHz/20 MHz KHz/0.01 KHz/0.1 KHz/0.001 MHz/0.01 M	6000 uF	± (2.5% + 5d) ± (2.5% + 5d)		
Manual datalo 0 second).	yyer is avalli	able (set the sampling time to be	Accuracy	0.01 Hz/0.1 Hz/0.001 k ± (0.5% + 2d)	NT2/0.01 KHZ/0.1 KHZ/0.001 MHZ/0.01 M	Hz 10 mF	± (3.5% + 5d) ± (3.5% + 5d)	
6000 counts A			Sensitivity	Min. 1 V rms, Max.	5 V rms.	Range	Accuracy	Accuracy	
		ront end for impedance(Z) measurement. nent for LCR mode.	OHMS			600 pF	1k Hz ± (2.5% + 5d	10 kHz) ± (2.0% After ca	libration
Four different	test frequen	cy are available :	Range		2 /600 KΩ /6 MΩ /60 MΩ	6000 pF	± (2.0% + 5d) ± (1.5% After ca	
100 Hz/120 Hz/1 KHz/10 KHz for L/C/R measurement.			Resolution		(Ω /0.1 KΩ /0.001 MΩ /0.01 MΩ	60 nF	± (2.0% + 5d		
* Test AC signal level : 0.5 V rms typically. * Test range : (ex. F = 1 KHz)			Accuracy	600 ohm : 6K/60K/600K/6 M	± (1% + 2d) ± (1.5% + 2d)	600 nF 6000 nF	± (1.5% + 5d ± (1.5% + 5d		
L: 600.0 uH to	o 60.00 H			60 M	± (3% + 5d)	60 uF	± (1.5% + 5d) ± (2.5% + 5d)	
C : 600.0 pF to 600.0 uF R : 60.00Ω to 20.00 MΩ			Over load protection	± 350 DCV, 350 AC	v.	600 uF 6000 uF	± (2.5% + 5d)	
Min. source re 6 ratio resistor Support buzze selectable.	esistance : 12 r range used er sound driv	for LCR mode. er with driving pattern and frequency	Max. & Min. Meas	l if measured resistan surement tion can memorize the		10 mF Remark : * All specificati * Don't apply v * Discharge cap	pacitor before mea	30 V to input terminals surement.	
Min. source re 6 ratio resistor Support buzze selectable.	esistance : 12 r range used er sound driv SPECIFICATI 97 mm x 5 DCV, ACV	for LCR mode. er with driving pattern and frequency ONS 56 mm large LCD display DCA, ACA, Resistance,Diode,	Beeper will sound Max. & Min. Meas During the operal minimum measur	I if measured resistan surement tion can memorize the rement value.		10 mF Remark : * All specificati * Don't apply v * Discharge cap * If intend to o please test vi	oltage larger than pacitor before meas btain the accurate a optional. SMD tes	30 V to input terminals surement. value of SMD capacitor st clip, SMDC-21.	
Min. source re 6 ratio resistor Support buzze selectable. MM GENERAL S isplay leasurement atalogger	sistance : 12 r range used er sound driv SPECIFICATI 97 mm x 9 DCV, ACV, Continuity Auto	for LCR mode. er with driving pattern and frequency ONS 56 mm large LCD display DCA, ACA, Resistance,Diode, beeper, Frequency, Duty cycle. 2 seconds to 3600 seconds	Beeper will sound Max. & Min. Meas During the operat minimum measur	I if measured resistan surement tion can memorize the ement value.	e maximum and the	10 mF Remark : * All specificati * Don't apply w * Discharge caj * If intend to o please test vi Inductance (1)	oltage larger than a pacitor before measure btain the accurate a optional. SMD test SER/PAL): D	30 V to input terminals surement. value of SMD capacitor st clip, SMDC-21. 0.1, 0.5V(rms)	,]
Min. source re 6 ratio resistor Support buzze selectable. MM GENERAL S bisplay leasurement vatalogger ampling Time	sistance : 12 r range used er sound driv SPECIFICATI 97 mm x 5 DCV, ACV, Continuity Auto 2 Manual F	for LCR mode. er with driving pattern and frequency ONS 56 mm large LCD display , DCA, ACA, Resistance,Diode, beeper, Frequency, Duty cycle.	Beeper will sound Max. & Min. Meas During the operat minimum measur LCR GENERAL S Display	I if measured resistan surement tion can memorize the rement value.	e maximum and the	10 mF Remark : * All specificati * Don't apply v * Discharge cap * If intend to o please test vi	oltage larger than pacitor before meas btain the accurate a optional. SMD tes	30 V to input terminals surement. value of SMD capacitor st clip, SMDC-21.	,]
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