MULTIMETER smart

Model: DM-9950 ISO-9001, CE, IEC1010

www.yalab.com.tw 02-2389-0101







smart

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FEATURES
* Meet IEC 1010 CAT III 1000 V safety requirement.
* 6000 counts A/D, high resolution.
* ACV, ACA, DCV, DCA, ohms, continuity, Hz,
Capacitance, Diode.
* Smart function, Auto range or manual range with hold.
* Smart operation, Build in 5 intelligent function :
" V ", " Ω "," uA ", " mA "," A ".
* " V " function can select ACV, DCV automatically with
auto range.
st " Ω " function can select the Resistance , Diode,
Continuity beeper, Capacitance automatically with
auto range.
* " mA " and " uA " function can measure ACA, DCA with
auto range.
* Data hold

* Both 10 A, mA,uA current range are build fuses for safety	
consideration.	
* 10 M ohm impedance for voltage circuit.	
* Built-in overload protection for most ranges.	
* LSI circuit provides high reliability and durability.	
* 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.

Auto shut off is available to save battery life.

GENERAL SPECIFICATIONS

Display	65 mm x 48 mm large LCD display
Measurement	DCV, ACV, DCA, ACA, Resistance,
	Capacitance, Frequency,
A /D	Diode, Continuity beeper.
A/D counts no.	6000 counts.
Smart function	" V " function can select ACV, DCV
	automatically with auto range.
	" Ω " function can select the Resistance,Diode,
	Continuity, beeper, Capacitance automatically
	with auto range.
	" 10A " " mA " " uA " function can measure
	ACA, DCA with auto range.
MAX./MIN.	Records Maximum & Minimum readings with recall.
Data hold	To freeze the display reading on the LCD display.
Power On/Off	Auto power off or manual power off.
management	
Hz button	When execute the voltage or current
	function also can measure the frequency
	of signal.
Selection	Smart function or auto function .
range	manual range selecting.
Polarity	Automatic Switching, " - " indicates
Sampling time	negative polarity. Approx. 0.5 to 1 second.
Operating	0 °C to 50 °C (32 °F to 122 °F)
temperature	M 000/ DII
Operating humidity	Max. 80% RH.
Power supply	DC 9 V battery, 006P,MN1604
Power Supply	**
	Approx. DC 3 mA.
consumption Dimension	190 x 88 x 40 mm (7.5 x 3.5 x 1.6 inch).
וווופווטוטוו	130 X 00 X TU IIIII (7.3 X 3.3 X 1.0 IIICII).

Weight	377 g/0.83 LB (w.o battery).
Accessories	Red and Black Test Leads
Included	(CAT III 1KV Test Leads) 1 Set
	0.63 Amp Spare Fuse 1 PC
	Instruction Manual 1 PC
Optional	Full line adapters :
accessories	ACA/DCA current adapter,
	Tachometer adapter,

Optional	Humidity adapter, Pressure adapter,
accessories	Light adapter, EMF adapter,
	Sound level adapter,
	High voltage probe.
	Soft carrying case CA-05A

ELECTRICAL SPECIFICATIONS (23 \pm 5 °C)

DC	١/٨	1+	_

DC Vollage		
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

AC Voltage		
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

DC Current, AC Cu	ITCIIC
Range	10 A/ 600 mA/60 mA/ 6000 uA/600 uA
Resolution	0.01A / /0.1 mA /0.01mA /1 uA /0.1 uA
Accuracy	600 uA : ± (1.5% +2d).
-	6000 uA: ± (1.5 % + 2d)
	60 mA: ± (1 % + 2d)
	600 mA: ± (1 % + 2d)
	10 A: ± (1.5 % + 2d)
	* ACA spec. are tested under 50/60 Hz.
Over load	10A range: 10A fuse.
protection	uA, mA range : 630 mA fuse.

Diode (Forward voltage, VF)

Range	3 V DC.
Accuracy	± (0.5% + 2d)

Capacitance

Range	6 nF/60 nF/600 nF/6 uF/60 uF/ 600uF
	0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/ 0.1uF
Accuracy	± (3% + 5d)

Frequency

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Range	40Hz to 1KHz
Resolution	0.001KHz
Accuracy	± (0.5% + 2d)
Over load	AC/DC 600V
protection	

OHMS

Range	600Ω /6 K/60 K/600 K/6 M/60M
Resolution	0.1Ω /0.001K/0.01K/0.1K/0.001M/0.01M
Accuracy	600 ohm: ± (1 % + 2d) 6K/60K/600K/6 M: ± (1.5 % + 2d) 60M: ± (3 % + 2d) for auto range mode.
Over load protection	± 220 DCV, 220 ACV.

Continuity Beeper

Beeper will sound if measured resistance less than 20 ohm.

Max. & Min. Measurement

During the operation can memorize the maximum and the minimum measurement value.

^{*} Appearance and specifications listed in this brochure are subject to change without notice.