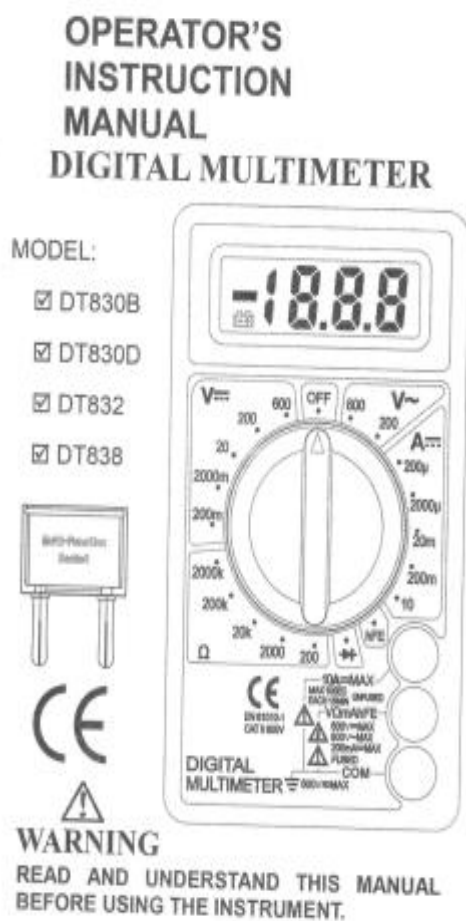




FICHA TECNICA

MODELO: DT-838H



Series Multimeters Function Table

Model	DCV	ACV	DCA	OHM	Hz	hFE	BAT	μr	°C
830B	✓	✓	✓	✓	✓	✓			
830D	✓	✓	✓	✓	✓	✓	✓	✓	
832	✓	✓	✓	✓	✓	✓			
838	✓	✓	✓	✓	✓	✓			✓

Technical Specifications

Accuracies are guaranteed for 1 year, 23°C±5°C, less than 80%RH

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	100μV	±(0.5% of rdg + 3D)
2000mV	1mV	±(0.8% of rdg + 5D)
20V	10mV	
200V	100mV	±(1.0% of rdg + 5D)
600V	1V	

OVERLOAD PROTECTION: 220V rms AC for 200mV range and 600V DC or 600V rms for all ranges.

AC VOLTAGE


RANGE	RESOLUTION	ACCURACY
200V	100mV	±(2.0% of rdg +10D)
600V	1V	

RESPONSE: Average responding, calibrated in rms of a sine wave.

FREQUENCY RANGE: 45Hz ~ 450Hz

OVERLOAD PROTECTION: 600V DC or 600V rms for all ranges.

AUDIBLE CONTINUITY

RANGE	DESCRIPTION
	Built-in buzzer sounds if resistance is less than $30 \pm 20 \Omega$

OVERLOAD PROTECTION: 15 seconds maximum 220 V rms.

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200uA	100nA	$\pm(1.8\% \text{ of rdg} + 2D)$
2000uA	1uA	
20mA	10uA	$\pm(2.0\% \text{ of rdg} + 2D)$
200mA	100uA	
10A	10mA	$\pm(2.0\% \text{ of rdg} + 10D)$

OVERLOAD PROTECTION: F500mA/600V and F10A/600V fuse

MEASURING VOLTAGE DROP: 200mV

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200 Ω	0.1 Ω	$\pm(1.0\% \text{ of rdg} + 10D)$
2000 Ω	1 Ω	
20K Ω	10 Ω	
200K Ω	100 Ω	
2000K Ω	1K Ω	

MAXIMUM OPEN CIRCUIT VOLTAGE: 3V.

OVERLOAD PROTECTION: 15 seconds maximum 220Vrms.

TEMPERATURE (with K-TYPE PROBE)

RANGE	RESOLUTION	ACCURACY
-40 $^{\circ}\text{C}$ to 150 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm(1.0\% + 4)$
150 $^{\circ}\text{C}$ to 1370 $^{\circ}\text{C}$		$\pm(1.5\% + 15)$

OPERATING INSTRUCTIONS**DC & AC VOLTAGE MEASUREMENT**

1. Connect red test lead to "V Ω mA" jack, Black lead to "COM" jack.
2. Set RANGE switch to desired VOLTAGE position, if the voltage to be measured is not known beforehand, set switch to the highest range and reduce it until satisfactory reading is obtained.
3. Connect test leads to device or circuit being measured.
4. Turn on power of the device or circuit being measured voltage value will appear on Digital Display along with the voltage polarity.

DC CURRENT MEASUREMENT

1. Red lead to "V Ω mA". Black lead to "COM" (for measurements between 200mA and 10A connect red lead to "10A" jack with fully depressed.)
2. Set RANGE switch to desired DCA position.
3. Open the circuit to be measured, and connect test leads IN SERIES with the load in with