

AUTOMOTIVE TESTER

Model : DM-9030

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FEATURES

- * Multi function measurement. DCV, ACV, DCA, ACA, OHMS, TEMPERATURE, Hz, RPM, DWELL ANGLE, DIODE, CONTINUITY BEEPER.
- * RPM (TACH) measurement by inductive pickup for more convenient & accurate readings of both conventional and distributorless ignitions.
- * RPM (TACH) used the " Secondary Tach. " measuring method, no matter what cylinder no is.
- * Accurate DCV/ACV, DCA/ACA and resistance measurement, wide range of automotive electronics tests.
- * Duty cycle (%) with Dwell conversion chart for electronic fuel injection and feedback carburetors.
- * Diode test quickly measures the forward bias voltage drop of alternator rectifiers and other diodes.
- * Continuity beeper keeps whenever probes touch a continuous circuit. Helps find shorts and open wires.
- * 10 Mega ohm impedance protects Mega ohm computer circuit.
- * Frequency measurements with adjustable trigger point for testing MAF, MAP & ABS SENSOR.
- * Rotary function switch, easy operation.
- * Large size LCD display.
- * Built-in overload protection for most ranges.

GENERAL SPECIFICATIONS

Display	18 mm (0.7") LCD, 3 1/2 digits, Max. indication 999.
Measurement	36 ranges covering : DCV, ACV, DCA, ACA, OHMS, TEMPERATURE, Hz, RPM, DWELL ANGLE, DIODE, CONTINUITY BEEPER.
Polarity	Automatic Switching, "-" indicates negative polarity.
Zero Adjustment	Automatic
Over-input	Display shows "1" or "-1".
Sampling time	Approx. 0.4 second.
Operating Temp.	0 to 50°C (32 to 122°F)
Operating Humidity	Less than 80% RH
Power Consumption	Approx. DC 3.6 mA.
Dimension	185 x 87 x 39 mm(7.3 x 3.4 x 1.5 inch)
Weight	322 g/0.71 LB (including battery).
Standard	Red and Black Test leads..... 1 pair
Accessories	Instruction Manual 1 PC
Optional	RPM inductive pick up sensor (IP-07, IP-09)
Accessories	Temperature probe, carrying case...

ELECTRICAL SPECIFICATIONS

DC VOLTAGE				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± (0.5%+1d)	100uV	10M ohm	500V DC, 350V AC, 15 sec.
2V	± ((0.8%+1d)	1mV		DC 600 V
20V		10mV		AC 600 V
200V		100mV		
600V		1V		

AC VOLTAGE				
* FREQUENCY RESPONSE: 40Hz-500Hz, SINE WAVE				
SPEC. TESTED ON 60Hz/50Hz				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± (1%+2d)	100uV	10M ohm	500V DC, 350V AC, 15 sec
2V (0.01V-2V)		1mV		DC 600 V
20V		10mV		AC 600 V
200V		100mV		
600V		1V		

AC/DC CURRENT				
* FREQUENCY RESPONSE: 40Hz-500Hz, SINE WAVE				
SPEC. TESTED ON 60Hz/50Hz				
RANGE	ACCURACY	RESOLUTION	VOLTAGE DROP	OVERLOAD PROTECTION
10A	DCA: ± (1.5%+2d) ACA: ± (1.5%+3d)	10mA	ACA: AC200mV DCA: DC200mV	10A (UN FUSED)

RESISTANCE

RANGE	ACCURACY	RESOLUTION	OPEN CKT. VOLTAGE	OVERLOAD PROTECTION
200 ohm	± (1%+3d)	0.1 ohm	3 V Max.	AC 500V (Protected by PTC)
2K		1 ohm		
20K		10 ohm		
200K	± (0.8%+1d)	100 ohm	APPROX. 0.3 V Max.	
2000K		1K ohm		
20M	± (2%+2d)	10K ohm		

DWELL

CYLINDER	RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
3 CYL	0 - 120	0.1 degree	± (1.2%+1d)	200V DC/AC RMS (within 15 sec)
4 CYL	0 - 90			
5 CYL	0 - 72			
6 CYL	0 - 60			
8 CYL	0 - 45			
DUTY CYCLE	0 - 100.0 %	0.1 %		

TACH (Secondary tach., no matter what cyl. no. is)

RANGE	RESOLUTION	ACCURACY	OVERLOAD PROTECTION
500 - 10,000 RPM	10 RPM	± (1.2%+1d)	24V DC/AC RMS (within 1 min.)

TEMPERATURE

RANGE	RESOLUTION	ACCURACY
-20°C to 750°C	1°C	± (1% + 2d) : 0 to 300 °C ± (3 % + 2d) : Over 300 °C
0°F to 1400°F	1°F	± (1% + 3d) : 0 to 550 °F ± (3 % + 3d) : Over 550 °F

FREQUENCY (Hz)

RANGE	MEASURING RANGE	ACCURACY	RESOLUTION	INPUT SENSITIVITY
200Hz	9-199.9 Hz	± (1%+2d)	0.1 Hz	35mV RMS
2 KHz	9-1999 Hz		1Hz	
20KHz	0.9-19.99 kHz		10Hz	

* Max. input voltage is 500 V DC/AC.

CONTINUITY BEEPER

A continuity test beeper is standard. When make the circuits checking for shorts or opens, it not necessary to look at the meter, the beeper sounds if continuity is present.

DIODE TEST

Open circuit voltage is approx. DC 3V max.

OPTIONAL ADAPTER (OP ADPT.)

RANGE	MAX. DISPLAY CAPACITY	PER DIGIT EQUAL:	ACCURACY
EXT ADPT	2000 x 1	0.1 mV DC	± (1.2% + 2d)
200 A	200.0 x 0.1	0.1 mV DC	
2000 A	2000 x 1	1 mV DC	
BATT TEST	200.0 x 0.1	0.1 V DC	

OPTIONAL TEMPERATURE PROBE & OTHER

ACCESSORIES

Full line adapters :

1000 A, 2000 A ACA/DAC current adapter, Tachometer adapter, IR adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, Sound adapter, High voltage probe...

Temp. probe : Type K, TP-01, TP-02A, TP-03, TP-04.

RPM inductive pick up sensor :

IP-07, IP09

Carrying case :

Soft carrying case. Size : 190 x 90 x 55 mm..... CA-03
 Soft carrying case with sash. Size : 260 x 110 x 55 mm..... CA-05A