

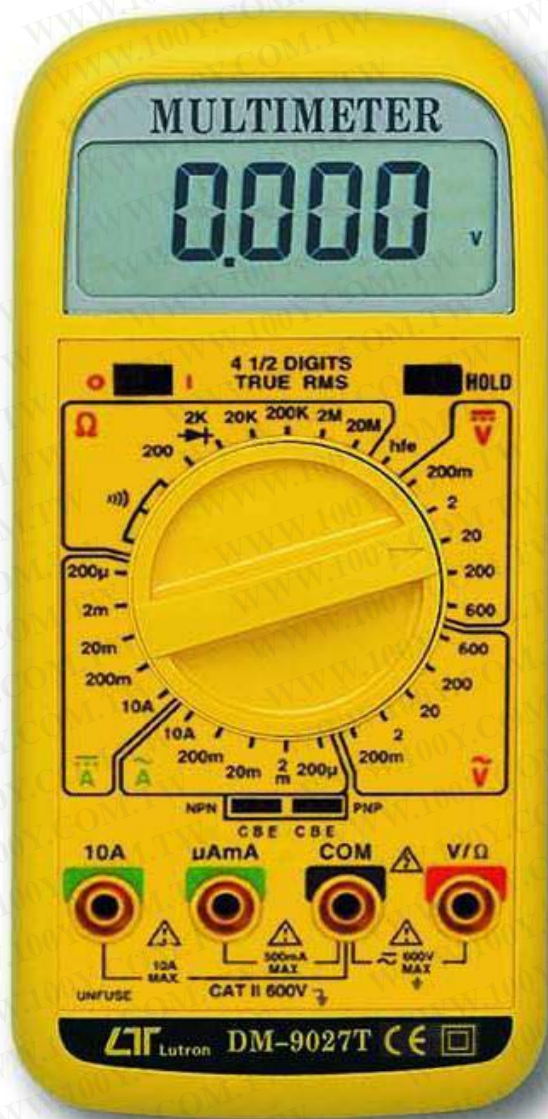
4 1/2 digits, true rms

MULTIMETER

FAMCO
هایپر صنعت

Model : DM-9027T

ISO-9001, CE, IEC1010



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The Art of Measurement

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

4 1/2 digits, True RMS

DIGITAL MULTIMETER

Model : DM-9027T

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FAMCO
هایپر صنعت

FEATURES

- * Design meet IEC 1010 safety requirement.
- * 4 1/2 digits DMM, high precision.
- * Large LCD display with annunciators.
- * LCD display, easy read-out.
- * True RMS measuring reading for ACV & ACA function.
- * With data hold function
- * Compact & strong housing case.
- * Optional Holster case.
- * Full range optional adapters for EMF, Light, Humidity DC/AC CLAMP current, Humidity, RPM, Pressure, Sound High voltage measurement.

GENERAL SPECIFICATIONS

Display	15 mm(0.5") LCD, w/ annunciators, 4 1/2 digits Max. reading 19999
Measurement	28 ranges, DCV, ACV, DCA, ACA, ohms, hFE, DIODE, Continuity Beeper.
Polarity	Automatic Switching, '-' indicates negative polarity.
Zero Adjustment	Automatic adjustment.
Over-input Indicator	"1" mark indication.
Sampling Time	Approx. 0.4 second.
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	006 P DC 9V battery.
Power Consumption	Approx. DC 1.6 mA.
Dimensions	185 x 87 x 39 mm (6.7 X 3.5 X 1.4 inch)
Weight	320 g/0.71 LB
Fuse	The meter build in one fuse for current range(200u/2m/20m/200mA) protection, its spec. : Rating - 500 mA Size - 5 mm dia. x 20 mm
Accessories Included	Red and Black Test Leads 1 pair Instruction Manual 1 PC
Optional Accessories	Light adapter LX-02 Anemometer adapter, AM-402 Humidity adapter, HA-702 tachometer adapter TA-601 1000 A DC/AC current adapter, CA-501 2000 A DC/AC current adapter, CA-203 Mini ACA current adapter, CA-201 EMF adapter, EMF-824 Sound adapter, SL-406 50 A current shunt, ST-50 High voltage probe, HV-40 Carrying case CA-03, CA-05A Alligator test lead, TL-02S Alligator test lead, TL-02S Heavy duty alligators, AL-04

ELECTRICAL SPECIFICATIONS (23±5 °C)

DC Voltage	
Range	200 mV / 2 V / 20 V / 200 V / 600 V
Resolution	0.01 mV / 0.1 mV / 1 mV / 10 mV / 0.1 V
Accuracy	± (0.1%+2d)-200mV. ± (0.2%+2d)-2V,20V,200V,600V.
Input Impedance	10 M ohm.
Over Load Protection	500 DCV, 350 ACV, 15 seconds - 200mV range. 600 DCV, 600 ACV - others.

AC Voltage (True RMS)	
Range	200 mV/2/20/200/600 V
Resolution	0.01 mV/0.1 m/1 m/10 m/0.1 V
Accuracy	± (0.8%+10d) -200mV,2V,20V,200V,600V * spec. are tested under 50/60 Hz.
Input Impedance	10 M ohm.
Over Load Protection	500 DCV, 350 ACV, 15 seconds - 200mV range. 600 DCV, 600 ACV - others.

DC Current	
Range	200u/2m/20m/200m/10A
Resolution	10n/100n/1u/10u/1mA
Accuracy	± (0.5%+5d) -200uA,2mA,20mA ± (0.8%+10d) -200mA ± (2%+5d) -10A
Over Load Protection	200u/2m/20m/200mA range : 0.5A fuse protection 10 A range : Max. 10A (no fuse).

AC Current(True RMS)	
Range	200u/2m/20m/200m/10A
Resolution	10n/100n/1u/10u/1mA
Accuracy	± (0.8%+10d) -200uA,2mA,20mA,200mA ± (2%+10d) -10A * spec. are tested under 50/60 Hz.
Over Load Protection	200u/2m/20m/200mA range : 0.5A fuse protection 10 A range : Max. 10A (no fuse).

OHMS	
Range	200/2k/20k/200k/2M/20M ohm
Resolution	0.01/0.1/1/10/100/1k ohm
Accuracy	± (0.5%+5d) -200 ohm ± (0.3%+5d) -2k,20k,200k,2 M ohm ± (0.8%+3d) -20 M ohm.
Over Load Protection	400 DCV, 350 ACV.

Diode Check	
Range	Approx. forward voltage(VF), good/defect test.
Resolution	0.1 mV.

Transistor hFE	
0-1000 hFE, NPN/PNP.	

Data hold	
To freeze the display values.	

Continuity	
Sound beeper for continuity check. Beeper will sound if the measuring resistance < 250 ohm approximately.	

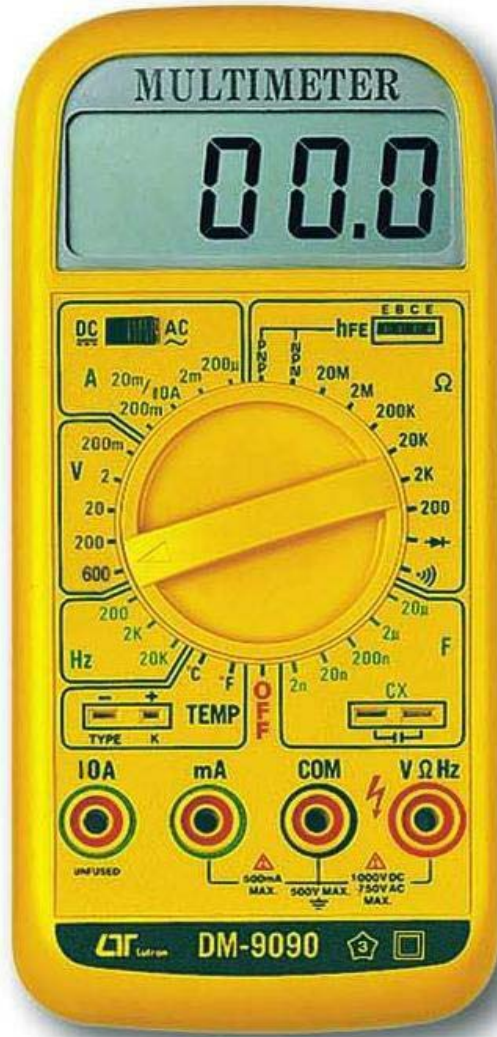
DCV/ACV, ohms, DCA/ACA, hFE, Diode, Hz, Temp

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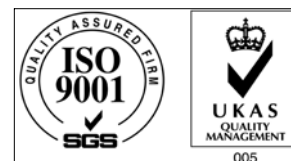
DMM

Model : DM-9090

ISO-9001, CE, IEC1010



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The Art of Measurement

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

DIGITAL MULTIMETER

Model : DM-9090

1. FEATURES

- * Multi-function measurement : ACV, DCV, ACA, DCA, OHMS, CAPACITANCE, TEMP., Hz, DIODE, hFE, CONTINUITY BEEPER.
- * Rotary function switch, easy operation.
- * Large size LCD display.
- * meet IEC safety requirement, & approval.
- * Built in overload protection for any ranges.
- * Fuse for overload protection.

2. SPECIFICATIONS

2-1 General Specifications

Display	18mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits, Max. indication 1999.
Measurement	40 ranges covering DCV, ACV, DCA, ACA, ohms, CAPACITANCE, FREQUENCY, TEMPERATURE, hFE, 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 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Power Supply	006P DC 9V battery (heavy duty type).
Power Consumption	Approx. DC 3.6 mA.
Dimension	185x87x39 mm (7.3x3.4x1.5 inch).
Weight	322 g/0.71 lb. (including battery).
Standard Accessories	Red and Black Test Leads 1 pair. 0.5 Amp Spare Fuse 1 PC. Instruction Manual 1 PC.

2-2 Electrical Specifications (23± 5°C)

DC VOLTAGE				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± (0.5%+1d)	100uV	10M ohm	500V DC, 350V AC, 15 secs
2V	± (0.8%+1d)	1mV		DC 600V AC 600V
20V		10mV		
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	500 AV, 350V AC, 15 secs
2V (0.01V-2V)		1mV		DC 600V AC 600V
20V		10mV		
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
200uA	DCA: ± (1%+1d)	0.1uA	ACA: AC200mV DCA: DC200mV	0.5 A Fuse
2mA		1uA		
20mA	ACA: ± (1.2%+2d)	10uA		UNFUSED
200mA		100uA		
10A	DCA: ± (1.5%+2d) ACA: ± (1.5%+3d)	10mA		

RESISTANCE				
RANGE	ACCURACY	RESOLUTION	OPEN CKT. VOLTAGE	OVERLOAD PROTECTION
200 ohm	± (1%+3d)	0.1 ohm	3 V Max.	AC 500V DC 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		

CAPACITANCE				
RANGE	ACCURACY	RESOLUTION	TESTED FREQUENCY	TESTED VOLTAGE
2000pF	± (2.5%+5d)	1pF	400Hz	500mV
20nF		10pF		
200nF		100pF		
2uF		1nF		
20uF		10nF		

TEMPERATURE		
RANGE	RESOLUTION	ACCURACY
-20°C to 750°C	1°C	>0°C , ± (1% + 2dgt) To 300 °C , (Over 550°F 3%)
0°F to 1400°F	1°F	>32°F, ± (1% + 3dgt) To 550 °F, (Over 500 °F 3%)

FREQUENCY (Hz)					
RANGE	MEASURING RANGE	ACCURACY	RESOLUTION	INPUT SENSITIVITY	MAX. INPUT VOLTAGE
200Hz	9-199.9 Hz	± (1% + 2d)	0.1 Hz	35mV RMS	500V DC/AC
2 KHz	9-1999 Hz		1Hz		
20KHz	0.9-19.99 kHz		10Hz		

CONTINUITY BEEPER
A CONTINUITY TEST BEEPER IS STANDARD. SO WHEN ARE CHECKING CIRCUITS FOR SHORTS OR OPENS, YOU DO NOT HAVE TO LOOK AT THE METER. THE BEEPER SOUNDS IF CONTINUITY IS PRESENT.

DIODE TEST
OPEN CIRCUIT VOLTAGE IS APPROX. DC 3V Max.

TRANSISTOR hFE MEASUREMENT
0 - 1000 hFE VALUES FO EITHER P.N.P. OR N.P.N. TRANSISTOR
(TEST CONDITION: BASE DC CURRENT APPROX. 10uA, VCE: APPROX. 2.8V)

3. Optional Accessories and Adapters

Temperature Probe	(Type K) TP-01, naked bead.
Temperature Probe	(Type K) TP-02A. immerse, general purpose.
Temperature Probe	(Type K) TP-03, high temperature.
Temperature Probe	(Type K) TP-04, surface.
Carry case	CA-03
Carry case	CA-05A
Plug	PL-03
Test Lead	TL-02AS
DCA. ACA CLAMP ADAPTER	CA-501, CA-502, CA-202, CA-203
TACHOMETER ADAPTER	TA-601
PRESSURE ADAPTER	PS-403
HUMIDITY ADAPTER	HS-702
SOUND ADAPTER	SL-406
ANEMOMETER ADAPTER	AM-402
LIGHT ADAPTER	LX-02
EMF ADAPTER	EMF-824
HIGH VOLTAGE PROBE	HV-40

DMM CAT III 1000V

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Model : DM-9960

ISO-9001, CE, IEC1010



FEATURES

- * Meet IEC 1010 CAT III 1000 V.
- * Large LCD display with bar graph indicator.
- * Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.
- * Max./Min., Peak value, Relative, Data hold.
- * Auto range with manual range selection.
- * °C/°F thermometer °
- * VAHz button, when execute the ACV, ACA function also can measure the frequency of signal.
- * 4000 counts A/D, high resolution.
- * Build fuse for Both 10 A, mA, uA current range.
- * 10 M ohm input impedance for voltage circuit.
- * Full line optional adapters.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

AUTO RANGE MULTIMETER, CAT III 100

Model : DM-9960

FEATURES

* Meet IEC 1010 CAT III 1000 V safety requirement.	* Both 10 A, mA, uA current are build fuse for s consideration.
* Large LCD display with bar graph indicator.	* 10 M ohm impedance for voltage circuit.
* Multi function measurement. DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.	* Operates from 2 PCs UM4 1.5 V batteries.
* Max./Min., Peak value, Relative, Data hold.	* Built-in overload protection for most ranges.
* Auto range with manual range selection.	* Photo copuple RS 232 computer serial interface.
* °C/°F thermometer, optional Temp. probe.	* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.
* VAHz button, when execute the ACV, ACA function also can measure the frequency of signal.	* Full line optional adapters : Clamp adapter, Tacheometer adapter, Pressure adapter, Humidity Adapter, Soud level adapter, Anemometer adapter, Light adapter, EMF adapter.
* 4000 counts A/D, high resolution.	

GENRAL SPECIFICATIONS

Display	65 mm x 48 mm large LCD display with bar graph indicator.	Zero adjustment	Automatic.
Measurement	DCV, ACV, DCA, ACA, Resistance, Capacitance, Frequency, Temperature, Diode, Continuity beeper.	Sampling time	Approx. 0.5 to 1 second.
A/D counts no.	4000 counts.	Operating temperature	0 °C to 50 °C (32 °F to 122 °F).
Range selection	Auto range with manual range selecting.	Operating humidity	Max. 80% RH.
Special function	Max./Min., Peak value, Relative measurement, Data hold.	Power supply	1.5 V battery x 2 PCs UM-4/AAA/Micro/R03 type
Data hold	To freeze the display reading on the LCD display.	Power consumption	Approx. DC 2.5 mA.
Memory recall	Records Maximum & Minimum readings with recall.	Dimension	185 x 88 x 40 mm (7.3 x 3.5 x 1.6 inch).
Peak value	To measure the signal peak value.	Weight	350 g/0.77 LB.
Relative measurement	To offset the measurement value.	Accessories Included	Red and Black Test Leads..... 1 PC. 0.5 Amp Spare Fuse..... 1 PC. Instruction Manual..... 1 PC.
VAHz button	When execute the ACV, ACA function also can measure the frequency of signal.	Optional accessories	Full line adapters : ACA/DCA current adapter, adapter, Tachometer adapter, Humidity adapter, Pressure adapter, Light adapter, EMF adapter, Sound level adapter, High voltage probe.
Data output	RS 232 PC serial interface, photo couple.		Temperature probe..... TP-11 RS232 cable..... UPCB-06
Polarity	Automatic Switching, " - " indicates negative polarity.		

ELECTRICAL SPECIFICATIONS (23± 5 °C)

DC Voltage		CAPAITANCE	
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Range	4 nF/40 nF/400 nF/4 uF/40 uF/400 uF 4 mF/40 mF
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Resolution	1 pF/10 pF/0.1 nF/1 nF/10 nF/0.1 uF 1 uF/10 uF
Accuracy	± (0.5% + 2d) - 400 mV. ± (0.8% + 1d) - 4 V, 40 V, 400 V, 1000 V.	Accuracy	± (3 % + 1d)
Input impedance	10 M ohm.		
Over load protection	00 DCV, 350 ACV - 200 mV range. 000 DCV, 1000 ACV - other ranges.		
AC Voltage		Frequency	
Range	400.0 mV / 4 V/ 40 V/ 400 V / 1000 V	Range	4 KHz/40 KHz/400 KHz 4 MHz/40 MHz
Resolution	0.1 mV /1 mV /10 mV /100m V/1 V	Resolution	1 Hz/10 Hz/0.1 KHz/1 kHz/0.01 MHz/0.1 MHz
Accuracy	± (1% + 2d) * Spec. are tested under 50/60 Hz.	Accuracy	± (0.5% + 2d)
Input impedance	10 M ohm.		
Over load protection	± 500 DCV, 350 ACV - 200 mV range. ± 1000 DCV, 1000 ACV - other ranges.		
DC Current, AC Current		OHMS	
Range	10 A/400 mA/40 mA/4000 uA/400 uA	Range	400/4 K/40 K/400 K/4 M/40 M ohm
Resolution	10 mA/0.1 mA/0.01 mA/1 uA/0.1 uA	Resolution	0.1/1/10/100/1 K/10 K ohm
Accuracy	400 uA : ± (1 % + 2d) 4000 uA : ± (1.5 % + 2d) 40 mA : ± (1 % + 2d) 400 mA : ± (1.5 % + 2d) 400 mA : ± (1.5 % + 2d) * ACA spec. are tested under 50/60 Hz.	Accuracy	400 ohm : ± (1 % + 2d) 4K/40K/400K/4 M : ± (1.5 % + 2d) 40 M : ± (3 % + 5d)
Over load protection	10A range : 10A fuse. uA, mA range : 500 mA fuse.	Over load protection	± 500 DCV, 350 ACV.
Diode (Forward Voltage)		Temperature	
Range	2 V	Range	-20 °C to 750 °C
Accuracy	± (0.5% + 2d)	Resolution	1 °C
		Accuracy	-20 °C to 300 °C : ± (1% + 2 °C) 301 °C to 750 °C : ± 3% reading

Type K Temperature Probe

Model : TP-11

ISO-9001, CE, IEC1010



FEATURES

- * Optional temperature probe for DMM, DM-9960.
- * Type K thermocouple temperature probe.
- * Measure Range : -40 °C to 250 °C, -40 °F to 482 °F.
- * Ultra fast response naked-bead thermocouple, general purpose application.



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