

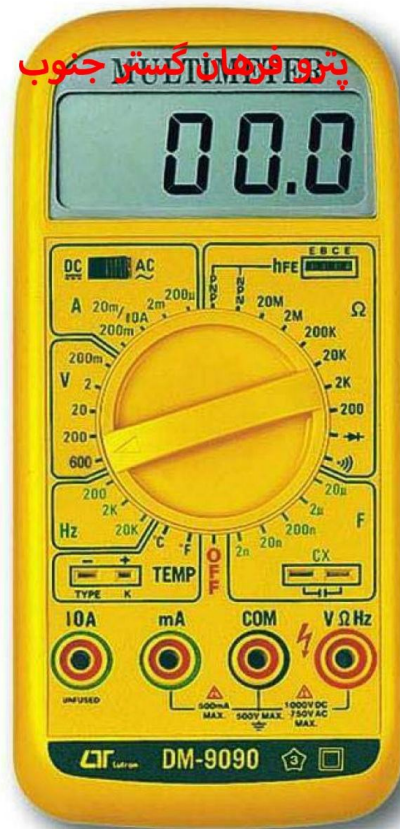
DCV/ACV, ohms, DCA/ACA, hFE, Diode, Hz, Temp., Cap.
DMM

Model : DM-9090

ISO-9001, CE, IEC1010

DIGINDT.IR

FGJ-NDT.IR



FGJ-NDT.IR

DIGINDT.IR



LUTRON ELECTRONIC

The Art of Measurement

پترو فرهان کستر جنوب

DIGITAL MULTIMETER

Model : DM-9090

DIGINDT.IR

FGJ-NDT.IR

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.

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+982144584619

+989034119385

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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. FGJ-NDT.IR
Dimension	185x87x39 mm (7.3x3.4x1.5 inch). DIGINDT.IR
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 پترو فرهنگ گستر جنوب				
RANGE	ACCURACY	RESOLUTION	INPUT IMPEDANCE	OVERLOAD PROTECTION
200mV	± (0.5%+1d)	100uV	10M ohm DIGINDT.IR FGJ-NDT.IR	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		

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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	0.5 A Fuse
2mA		1uA		
20mA		10uA		
200mA	± (1.2%+2d)	100uA	DCA: DC200mV	UNFUSED FGJ-NDT.IR DIGINDT.IR
10A	DCA: ± (1.5%+2d) ACA: ± (1.5%+3d)	10mA		

RESISTANCE پترو فرهان گستر جنوب				
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	± (0.8%+1d)	10 ohm	APPROX. 0.3 V Max.	
200K		100 ohm		
2000K		1K ohm		
20M	± (2%+2d)	10K ohm	DIGINDT.IR	

CAPACITANCE FGJ-NDT.IR				
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 **FGJ-NDT.IR**
 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. **DIGINDT.IR**

DIODE TEST ☎ +982165565901
 OPEN CIRCUIT VOLTAGE IS APPROX. DC 3V Max. ☎ +982144584619

TRANSISTOR hFE MEASUREMENT ☎ +989034119385
 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) 📍 Tehran, Tehransar

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	FGJ-NDT.IR DIGINDT.IR
ANEMOMETER ADAPTER	AM-402	
LIGHT ADAPTER	LX-02	+982165565901
EMF ADAPTER	EMF-824	+982144584619
HIGH VOLTAGE PROBE	HV-40	+989034119385
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