

Professional Multimeter

JEFDMM600PRO



PROFESSIONAL

WARNING!

Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury



Warranty

This instrument is warranted to be free from defects in material and workmanship for a period of one year. Any instrument found defective within one year from the delivery date and returned to the factory with transportation charges prepaid, will be repaired, adjusted, or replaced at no charge to the original purchaser. This warranty does not cover expandable items such as battery or fuse. If the defect has been caused by a misuse or abnormal operation conditions, the repair will be billed at a nominal cost.

Safety information



This meter has been designed according to IEC 61010 concerning electronic measuring instruments with a measurement category (CAT IV 600V) and Pollution Degree 2.

Warning

To avoid possible electric shock or personal injury, follow these guidelines:

- Do not use the meter if it is damaged. Before you use the meter, inspect the case. Pay particular attention to the insulation surrounding the connectors.
- Inspect the test leads for damaged insulation or exposed metal. Check the test leads for defects. Replace damaged test leads before you use the meter.
- Do not use the meter if it operates abnormally. Protection may be impaired. When in doubt, have the meter serviced.
- Do not operate the meter where explosive gas, vapour or dust is present.
- Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground.
- Before use, verify the meter's operation by measuring a known voltage.
- When measuring current, turn off circuit power before connecting the meter in the circuit. Remember to place the meter in series with the circuit.
- When servicing the meter, use only specified replacement parts.

Warning cont.

- Use caution when working with voltage above 30V ac rms, 42V peak, or 60V dc. Such voltages pose a shock hazard.
- When using the probes, keep your fingers behind the finger guards on the probes
- When making connections, connect the common test lead before you connect the live test lead.
- When you disconnect test leads, disconnect the live test lead first.
- Remove the test leads from the circuit under test before you open the back cover. Do not operate the meter with the back cover removed or loosened.
- To avoid false readings, which could lead to possible electric shock or personal injury, replace the battery as soon as the low battery indicator () appears.
- When in Relative mode (" REL " is displayed) or in Data Hold mode ("  " is displayed), caution must be used because hazardous voltage may be present.
- Do not use the meter in a manner not specified by this manual or the safety features provided by the meter may be impaired.
- Adhere to local and national safety codes. Individual protective equipment must be used to prevent shock and arc blast injury where hazardous live conductors are exposed.
- To avoid electric shock, do not touch any naked conductor with your hand or skin, and do not ground yourself.
- Use only the test leads specified by Jefferson Tools. Do not use the supplied test leads with other equipment.
- Do not use the meter if your hand or the meter is wet and do not use the meter under wet condition.
- Remaining endangerment: When an input terminal is connected to dangerous live potential, it is to be noted that this potential can occur at all other terminals!
- For measurements on main or within Measurement Category III/IV circuits, the attached test probes must be set in Measurement Category III/IV mode; Otherwise electric shock may occur!

Warning cont.










- CAT IV - Measurement Category IV is for measurements performed at the source of the low-voltage installation. Examples are electricity meters and measurements on primary overcurrent protection devices and ripple control units.

CAUTION!

To avoid possible damage to the meter or to the equipment under test, follow these guidelines:

- Disconnect circuit power and discharge all capacitors thoroughly before testing resistance, diode, capacitor, temperature or continuity.
- Use the proper terminals, function and range for your measurements.
- Before measuring current, check the meter's fuses and turn off the power to the circuit before connecting the meter to the circuit.
- Before rotating the rotary switch to change functions, disconnect test leads from the circuit under test.
- The meter uses multiple anti-interference designs, but it may stop working if the interference in the environment is too intense. Turning on the meter again can solve this problem.



Electrical Symbols

-  - Alternating Current
-  - Direct Current
-  - Both direct and alternating current
-  - Caution, risk of danger, refer to the operating manual before use.
-  - Caution, risk of electric shock.
-  - Earth (ground) Terminal
-  - Fuse
-  - Conforms to European Union directives
-  - The equipment is protected throughout by double insulation or reinforced insulation.

Introduction


Model JEFDMM600PRO meter is compact 3 3/4-digit digital multimeters for measuring DC and AC voltage, DC and AC current, resistance, continuity, diode, capacitance, frequency and duty cycle. JEFDMM600PRO multimeter has non-contact ac voltage detection function.

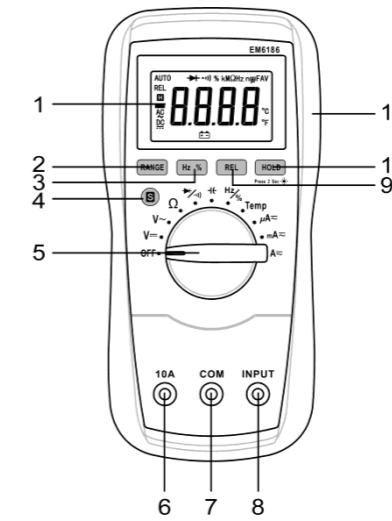
They feature relative measurement, data hold, backlight, low battery indication, overrange indication, automatic power-off, full-range overload protection, autoranging etc. They are easy to operate and are ideal test tools.

Function	JEFDMM600PRO
DCV	YES
ACV	YES
DCA	YES
ACA	YES
ohm	YES
	YES
	YES
Cap	YES
Temp	NO
Freq	YES
Duty Cycle	YES
NCV	YES

Note: " NCV " means non-contact ac voltage detection

Instructions.

1. Display 3 3/4 digit LCD, with a max. reading of 3999
2. " RANGE " Button
Used to switch the meter between autorange mode and manual range mode as well as to select desired manual range.
3. " Hz % " Button
Used to switch the meter between frequency and duty cycle measurements when the rotary switch is in the Hz% position.
4.  Button
Used to switch the meter between:
 - AC current and DC current measurement functions.

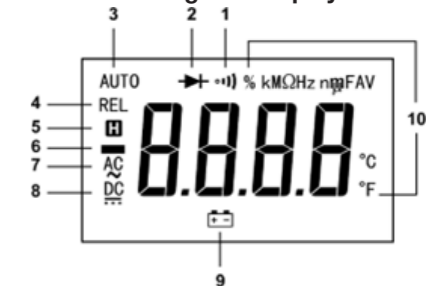


- Diode and continuity test functions.
- Fahrenheit and celsius measurements.
- 5. Function/Range Switch
Used to select the desired function or range as well as to turn on or off the meter.
To save battery power, set this switch to the " OFF " position when the meter is not in use.
- 6. "10A" Terminal
Plug-in connector for the red test lead for current (400mA - 10A) measurements.
- 7. " COM " Terminal.
This " COM " terminal is a plug-in connector for the black test lead for all measurements except temperature measurements.
It is also a plug-in connector for the negative plug of K type thermocouple for temperature measurements.
- 8. " INPUT " Terminal
This " INPUT " terminal is a plug-in connector for the red test lead for all measurements except temperature measurements and the current measurements $\geq 400mA$.
It is also a plug-in connector for the positive plug of K type thermocouple for temperature measurements.
- 9. " REL " Button
Used to enter/exit Relative mode.
- 10. " HOLD " Button
Press this " HOLD " button briefly to enter or exit Data Hold mode. Press and hold down this button for about 2 secs to turn on or off the backlight.
- 11. Holster








Built-in Buzzer:

1. When you press a button, the buzzer will sound a beep if this press is effective
2. The buzzer will sound several short beeps about one minute before the meter turns off automatically and will sound a long beep before the meter turns off automatically.

Understanding The Display



Symbol's Meaning

- Used to select the desired function or range as well as to turn on or off the meter.
1.  Continuity test is selected
 2.  Diode test is selected.
 3. AUTO Autorange mode is selected.
 4. REL Relative mode is active.
 5.  Data Hold mode is active
 6.  Negative sign
 7.  AC
 8.  DC
 9.  The battery is low and must be replaced immediately.

10. Units:

mV, V	Unit of voltage	mV: Millivolt; V: Volt; 1V = 103mV
μA , mA, A	Unit of current	μA : Micro amp; mA: Milliamp; A: Ampere; 1A = 103mA = 106 μA
Ω , k Ω , M Ω	Unit of resistance	Ω : Ohm; k Ω : Kilohm; M Ω : Megohm; 1M Ω = 103k Ω = 106 Ω
nF, μF	Unit of capacitance	nF: Nanofarad; μF : Microfarad 1F = 106 μF = 109nF = 1012pF
.	Unit of temperature	: Celsius degree : Fahrenheit degree f () = 32 + 1.8 x c ()
Hz, kHz, MHz	Unit of frequency	Hz: Hertz; kHz: Kilohertz; MHz: Megahertz; 1MHz = 103kHz = 106Hz
%	Unit of duty cycle	%: Percent

General specification

Fuse Protection for " INPUT " terminal Inputs: 400mA/600V FAST fuse
 Fuse Protection for " 10A " terminal Inputs: 10A/600V FAST fuse
 Display: 3 3/4 digit LCD, with a max. reading of 3999
 Overrange Indication: " OL " shown on the display.
 Negative Polarity Indication: Negative sign " - " shown on the display automatically
 Sampling Rate: About 2 to 3 times/sec
 IP degree: IP20
 Operating Environment: Temperature: 0C to 40C
 Relative Humidity: < 75%
 Temperature Coefficient: 0.2 x (specified accuracy)/C (< 18C or > 28C)
 Storage Environment: Temperature: -10C to 50C
 Relative Humidity: < 85%RH
 Operating Altitude: 0 to 2000 meters
 Battery: 9V battery, 6F22 or equivalent, 1 piece Low Battery Indication: shown on the display Size: 185X89X61mm
 Weight: About 440g (including battery and holster)

Specification

Accuracy is specified for a period of 1 year after calibration at 18C to 28C, with relative humidity up to 75%.

Accuracy specifications take the form of:
 \pm [(% of Reading) + (Number of Least Significant Digits)]

DC Voltage:

Range	Resolution	Accuracy	Overrange Indication
4V	1mV	\pm (0.8% + 5)	OL* shown on the display
40V	10mV		
400V	0.1V		
600V	1V	\pm (1.0% + 5)	See [1]

Input Impedance: 10M Ω
 Max. Allowable Input Voltage: 600V dc
 [1] If the voltage being measured is >600V, the display may show the value of the voltage, but the measurement is dangerous.
 Note: The 600V range is specified from 20% to 100% of range.

DC Current

Range	Resolution	Accuracy	Overrange Indication
400.0 μ A	0.1 μ A	\pm (1.0% + 7)	OL* shown on the display
4000.0 μ A	1.0 μ A		
40.00mA	0.01mA		
4.000A	1mA	\pm (1.5% + 7)	OL* shown on the display
10A	10mA	\pm (1.5% + 7)	

Overload Protection:
 400mA/600V FAST fuse (for protection for " INPUT " terminal inputs)
 10A/600V FAST fuse (for protection for " 10A " terminal inputs)
 Max. Allowable Input Current: 10A
 (For inputs > 2A: duration < 10 secs, interval >15 minutes)
 Note: The 10A range is specified from 20% to 100% of range.

AC Voltage:

Range	Resolution	Accuracy	Overrange Indication
4v	1mV	\pm (0.8% + 5)	OL* shown on the display*
40V	10mV	\pm (1.2% + 5)	
400V	0.1V		
600V	1V	\pm (1.0% + 5)	See [1]

Input Impedance: 10M Ω
 Frequency Range: 40Hz - 400Hz
 Response: Average, calibrated in rms of sine wave
 Max. Allowable Input Voltage: 600V ac rms
 [1] If the voltage being measured is >600V, the display may show the value of the voltage, but the measurement is dangerous.
 Note: The 600V range is specified from 20% to 100% of range.

AC Current

Range	Resolution	Accuracy	Overrange Indication
400.0 μ A	0.1 μ A	\pm (1.8% + 10)	OL* shown on the display
4000.0 μ A	1.0 μ A		
40.00mA	0.01mA		
400.0mA	0.1mA		
4.000A	1mA	\pm (2.5% + 10)	OL* shown on the display
10A	10mA		

Overload Protection:
 400mA/600V FAST fuse(for protection for " INPUT " terminal inputs)
 10A/600V FAST fuse (for protection for " 10A " terminal inputs)
 Max. Allowable Input Current: 10A
 (For inputs > 2A: duration < 10 secs, interval >15 minutes)
 Frequency Range: 40Hz - 400Hz
 Response: Average, calibrated in rms of sine wave
 Note: The 10A range is specified from 20% to 100% of range.

Resistance

Range	Resolution	Accuracy	Overrange Indication
400.0 Ω	0.1 Ω	\pm (1.0% + 5)	"OL" shown on the display
4.000k Ω	1 Ω		
40.00k Ω	10 Ω		
400.0k Ω	100 Ω		
4.000M Ω	1k Ω	\pm (1.5% + 5)	
40.00M Ω	10k Ω	\pm (3.0% + 10)	

Open Circuit Voltage: < 0.7V

Frequency

Range	Resolution	Accuracy	Remark
9.999Hz	0.001Hz	\pm (1.0% + 5)	Auto-range
99.99Hz	0.01Hz		
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		
999.9kHz	100Hz		
9.999MHz	1kHz	Not specified	

Input Voltage: 1V rms - 20V rms

Duty Cycle

Range	Resolution	Accuracy	Remark
5% - 95%	0.1%	\pm (2% + 7)	Auto-range

Input Voltage: 4Vp-p - 10Vp-p
 Frequency Range: 4Hz - 1kHz

Capacitance

Range	Resolution	Accuracy	Remark
40.00nF	10pF	\pm (3.5% + 20)	Auto-range
400.0nF	100pF	\pm (2.5% + 5)	
4.000 μ F	1nF	\pm (3.5% + 5)	
40.00 μ F	10nF	\pm (4.0% + 5)	
400.0 μ F	100nF	\pm (5.0% + 5)	
1000 μ F	1 μ F	Not specified	

Note:
 Use Relative mode to subtract the residual capacitance of the test leads and the meter.
 If the capacitance being measured is 1000uF, the display may show a reading, but the measurement error may be large.; If the capacitance being measured is >4000uF, "OL" will be shown on the display

Diode

Range	Description	Remark
	The display shows the approx. forward voltage drop of the diode.	Open Circuit Voltage: about 3V Test Current: about 0.8mA

Continuity

Range	Description
	The built-in buzzer will sound if the resistance is less than about 20 Ω . The buzzer may or may not sound if the resistance is between 20 Ω and 150 Ω . The buzzer will not sound if the resistance is more than 150 Ω .

Operating instruction

Using Relative Mode
 Relative mode is available in some functions. Selecting relative mode causes the meter to store the present reading as a reference for subsequent measurements.
 1. Press the REL button. The meter enters the Relative mode and store the present reading as a reference for subsequent measurements, the symbol " REL " appears as an indicator and the display reads zero.
 2. When you perform a new measurement, the display shows the difference between the reference and the new measurement.
 3. To exits the Relative mode, just press the REL button again. The symbol " REL " disappears.

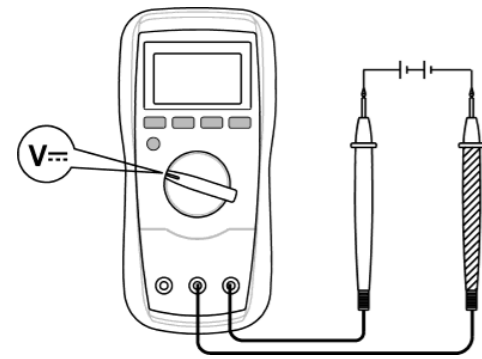
Note:
 When in Relative mode, the actual value of the object under test must not exceed the full-scale value of the selected range. Use a higher measurement range if necessary.

Data Hold Mode
 Press the HOLD button to hold the present reading on the display. "H" appears on the display as an indicator. To exit Data Hold mode, just press this button again. "H" disappears.

Manual Ranging and Autoranging
 The meter defaults to autorange mode in measurement functions which have both autorange mode and manualrange mode. When the meter is in autorange mode, the symbol " AUTO " is displayed.

1. Press the RANGE button. The meter enters the manual range mode and the symbol " AUTO " disappears. Each press of the RANGE button increases the range. After the highest range, the meter wraps to the lowest range.
 2. To exit the manual range mode, press and hold down the RANGE button for more than about 2 seconds. The meter returns to the autorange mode and " AUTO " is displayed.

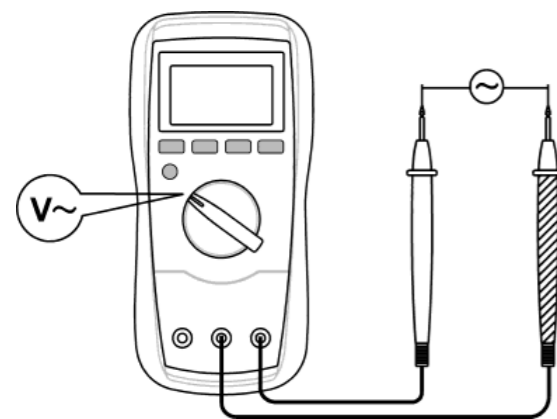
Measuring DC Voltage



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
2. Set the function switch to the $V=$ position.
3. Connect the test leads across the source or circuit to be tested.
4. Read the reading on the display. The polarity of the red lead connection will be indicated as well.

Note:
1. To avoid electric shock to you or damages to the meter, do not apply a voltage higher than 600V between terminals.
2. In manual range mode, when the display shows "OL", a higher range should be selected.

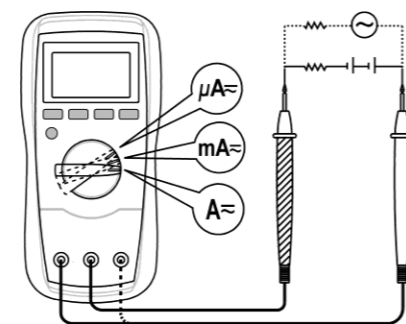
Measuring AC Voltage



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
2. Set the function switch to the $V=$ position.
3. Connect the test leads across the source or circuit to be tested.
4. Read the reading on the display.

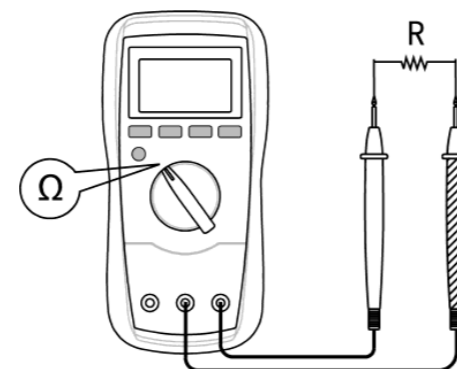
Note:
1. To avoid electric shock to you or damages to the meter, do not apply a voltage higher than 600V between terminals.
2. In manual range mode, when the display shows "OL", a higher range should be selected.

Measuring DC or AC Current



1. Connect the black test lead to the " COM " terminal. If the current to be measured is less than 400mA, connect the red test lead to the " INPUT " terminal. If the current is between 400mA and 10A, connect the red test lead to the " 10A " terminal instead.
2. If the red test lead is connected to the " 10A " terminal, set the function switch to the $A=$ position. If the red test lead is connected to the " INPUT " terminal, set the function switch to the $A=$ position for currents below 400mA, or the $\mu A=$ position for currents below 4000 μA .
3. Press the **S** button to select DC or AC current measurement, the display will show the corresponding symbol as an indication.
4. Turn off power to the circuit to be tested, and then discharge all capacitors.
5. Break the circuit path to be tested, and connect the test leads in series with the circuit.
6. Turn on power to the circuit, then read the display. For DC current measurements, the polarity of the red test lead connection will be indicated as well.

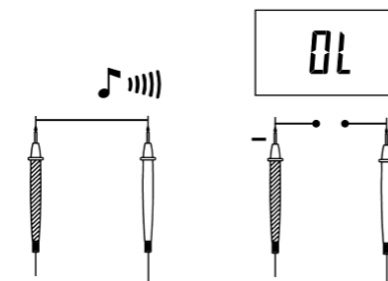
Measuring Resistance



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
2. Set the function switch to Ω position.
3. Connect the test leads across the object to be tested.
4. Read the reading on the display.

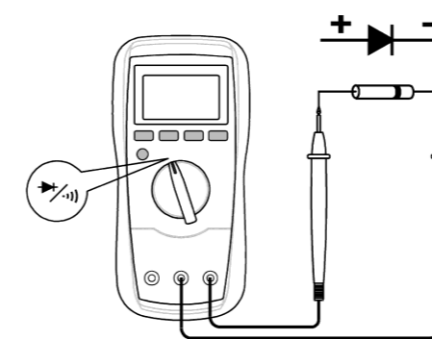
Note:
1. For measurements > 1M Ω , the meter may take a few seconds to stabilize reading. This is normal for high resistance measurements.
2. When the input is not connected, i.e. at open circuit, " OL " will be displayed as an overrange indication.
3. Before measurement, disconnect all power to the circuit to be tested and discharged all capacitors thoroughly.
4. In manual range mode, when the display shows "OL", a higher range should be selected.

Continuity Test



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
 2. Set the function switch to $\rightarrow|||$ position.
 3. Press the **S** button until the display shows " $\rightarrow|||$ ".
 4. Connect the test leads across the circuit to be tested.
 5. The display shows the resistance value. If the resistance is less than about 20 Ω , the built-in buzzer will sound. If the resistance is between 20 Ω and 150 Ω , the buzzer may or may not sound. If the resistance is more than 150 Ω , the buzzer will not sound.
- Note:**
Before test, disconnect all power to the circuit to be tested and discharge all capacitors thoroughly.

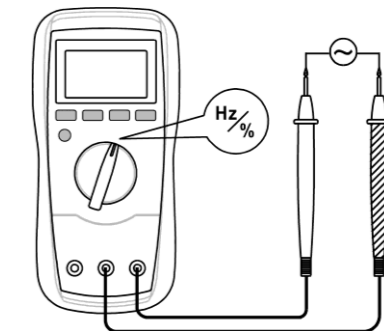
Diode Test



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal. (Note: The polarity of the red lead is positive " + ".)
2. Set the function switch to $\rightarrow|||$ position.
3. Press the **S** button until the display shows " $\rightarrow|||$ ".
4. Connect the red test lead to the anode of the diode to be tested and the black test lead to the cathode of the diode.

5. The display shows the approximate forward voltage drop of the diode. If the connection is reversed, " OL " will be shown on the display.

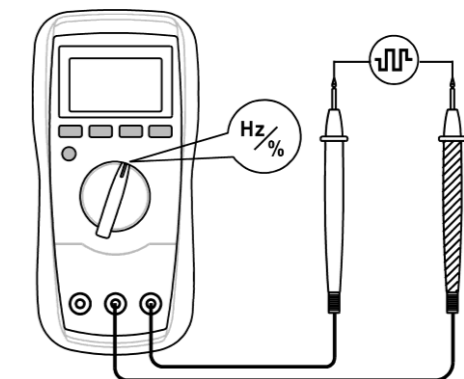
Measuring Frequency



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
2. Set the function switch to $Hz\%$ position. Then press the " Hz% " button until the display shows " Hz ".
3. Connect the test leads across the source or circuit to be tested.
4. Read the reading on the display.

Note:
1. For frequency measurements, the range exchange is automatic, and measurement range is: 0MHz - 10MHz.
2. The voltage of input signal should be between 1V rms and 20V rms. The higher the frequency, the higher the required input voltage.
3. For measurements < 10Hz, the amplitude of input signal must be more than 2V rms.

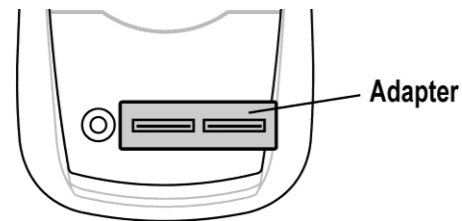
Measuring Duty Cycle



1. Connect the black test lead to the " COM " terminal and the red test lead to the " INPUT " terminal.
2. Press the " Hz % " button until the display shows " % ".
4. Connect the test leads to the circuit to be tested.
5. The reading on the display is the duty cycle value of the square wave being measured.

Note:
1. The voltage of the input signal should be between 4Vp-p and 10Vp-p.
2. After you remove the measured signal, its reading may still remain on the display. Pressing the " Hz % " button twice will zero the display.

Measuring Capacitance

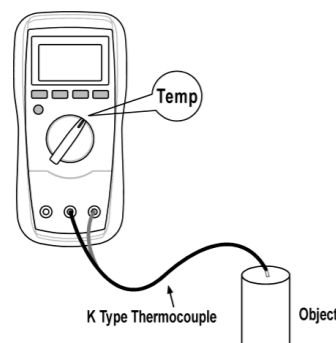


1. Set the function switch to H position.
2. Connect the Adapter to the " COM " and " INPUT " terminals, as indicated in the figure.
3. If the display does not read zero, press the REL button to zero the display; the meter will enter Relative mode and the symbol " REL " will appear on the display as an indicator.
4. Discharge thoroughly the capacitor which you will test by shorting its two leads together. Then insert the two leads of the capacitor into the two jacks of the Adapter. (Make sure the polarity connection is correct.)
5. Wait until the reading is stable, then read the reading on the display.

Note:

1. For capacitance measurements, the range exchange is automatic.
2. Because the meter measures capacitance by measuring the time of charging and discharging the capacitor, measuring a higher capacitance will take more time.

Non - Contact AC Voltage Detection



1. Make sure that the meter has been turned on, then set the function switch to NCV position.
2. Move the top of the meter close to the object to be tested.
3. When the meter detects AC voltage, the built-in buzzer will sound. (Note: The reading on the display is meaningless and can not be used.)

Warning:

1. When you just set the function switch to NCV position, the built-in buzzer may sound several beeps. This is normal and does not affect subsequent detections.
2. Because of the meter's detection limit, a line (or conductor) under test may be live even if the built-in buzzer does not sound.
3. Before use, verify the meter's operation by detecting a known AC voltage.

4. When the meter is interfered with by electric field in environment, it will give alarm even if the object under test does not contain ac voltage.
5. To avoid electric shock, don't touch any conductor with hand or skin.

Automatic Power-Off

The display will blank and the meter will go into Sleep mode if you have not turned the function switch or pressed a button for about 15 minutes. You can press a button to arouse the meter from Sleep.

To disable the automatic power-off feature, press and hold down a button while rotating the function switch from the " OFF " position to other switch position.

Maintenance

Except replacing fuse and battery, never attempt to repair or service the meter.

Store the meter in a dry place when not in use. Don't store it in an intense electromagnetic field environment.

General Maintenance

Periodically wipe the case with a damp cloth and a little mild detergent. Do not use abrasives or solvents.


Dirt or moisture in the terminals can affect readings. Clean the terminals as follows:

1. Set the rotary switch to OFF position and remove all test leads from the meter.
2. Shake out any dirt which may exist in the terminals.
3. Soak a new swab with alcohol.
4. Work the swab around in each terminal.

If the meter fails, check and replace (as needed) the battery and fuses, and/or review this manual to verify proper use of the meter.

Battery and Fuse Replacement

Warning:

To avoid false readings, which could lead to possible electric shock or personal injury, replace the battery as soon as the low battery indicator () appears. To prevent damage or injury, install only replacement fuses with the specified amperage, voltage, and interrupt ratings. Remove the test leads before opening the battery cover or the case.

To Replace Battery:

Remove the screw on the battery cover and remove the battery cover. Replace the exhausted battery with a new one of the same type. Reinstall the battery cover and the screw.

To Replace Fuse:

Remove the holster from the meter, then remove the screws on the back cover and move the back cover aside gently. Replace the blown fuse with a new one of the same ratings. Reinstall the back cover and all the screws. Finally, reinstall the holster.

This meter uses two fuses:
F 1: 400mA/600V FAST fuse, 6.35X32mm, Min. Interrupt Rating 10000A
F 2: 10A/600V FAST fuse, 6.35X32mm, Min. Interrupt Rating 10000A

ACCESSORIES

- Test Lead: 1 pair
- Manual: 1 piece
- Adaptor: 1 piece

NOTE

1. This manual is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The contents of this manual can not be used as the reason to use the meter for any special application.

DISPOSAL OF THIS ARTICLE

Dear Customer,
If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.

Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.



EC DECLARATION OF CONFORMITY

We, Jefferson Professional Tools & Equipment, as the authorised European representative of the manufacturer, declare that this equipment conforms to the requirements of the following:



EN 61326-1:2013 EN 61326-2-2:2013 EN 61010-1:2010; EN 61010-2-030:2010;
EN 61010-031:2015; EN 61010-2-033:2012; Low Voltage Directive 2014/35/EU

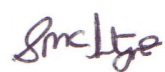
Notified Testing Body:

Intertek Testing Services Shanghai
Building No.86, 1198 Qinzhou Road
(North), Shanghai 200233, China

Description:

Jefferson Professional Multimeter
JEFDMM600PRO

Signed:

Stephen McIntyre
Operations Manager 

Date:

12 November 2023

Name and address of manufacturer or authorised representative:

Jefferson Professional Tools & Equipment
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