DIGITAL
CLAMP METER

MODE YF-8050

OPERATING MANUAL

Thank you for your patronage. Before using this instrument, please read thoroughly the instruction manual to obtain bestperformance.

1. FEATURES

Max. opening size up to 53mm.
Auto-indication of measuring units and functions.
Peak Hold functions.
Current measurement protection up to 1200A.
Rugged, tough, and reliable quality.

2. SPECIFICATION

2.1 General Specification

1. Display: 3¾dgt. LCD with max, reading 3999, units, decimal point and signs.
2. Overload: display highest "OL" at left side.
3. Low battery indication: When LCD displays "  " the battery need to be replaced.
4. Battery life: about 200 hours.
5. Sampling time: 2.5 times/sec.
6. Peak Hold: for measuring peak value of **AC** current and voltage.
7. Power supply: 1 pc of battery 006P 9V.
8. Operating temperature & humidity: 0°C~40°C, below 80%RH.
9. Size: 250 (L) X70(w) X35(H)mm.
10. Max, conductor size: 52mm
11. Weight: Approx. 420g(including battery)
12. Accessories: Test leads for measuring voltage & resistance, operating manual, case each one set.

2.2 Electrical Specification

General measurement (23°C ±5°C, below80% RH)
Accuracy: ± (.... % +.... dgt)

ACV

Range	Resolution	Accuracy	Impedance	Overload Protection
400V	0.1V	±(1%+4)	10MΩ	DC 1000V AC 750Vrms
750V	1V			

ACA

Range	Resolution	Accuracy 50Hz~60Hz	Overload Protection
40A	0.01A	± (1.5%+3)	1200A (60 sec.)
400A	0.1A	± (1.5%+4)	
1000A	1A	± (1.5%+4)	

Resistance(Ω)

Range	Resolution	Accuracy	Open Voltage	Overload Protection
2000Ω	1Ω	± (1.0%+2)	3.1V~3.5V	600V rms

Continuity •))

Range	Resolution	Sound Indication	Open Voltage	Overload Protection
•))	1Ω	Below300Ω	3.1V~3.5V	600V rms

Auto range frequency

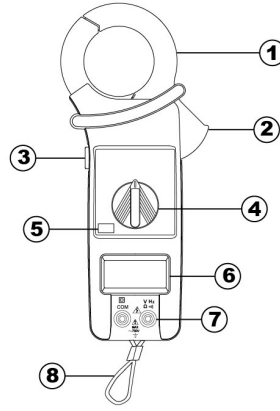
Range	Resolution	Accuracy	Max. Sensitivity	Overload Protection
4KHz	1Hz	± (0.8%+3)	3Vrms	600V rms
40KHz	10Hz			
100KHz	100Hz			

Inductive Clamp Jaw measuring frequency of ranges: 10Hz~ 4 KHz

Measurement Range	Sensitivity
10Hz~200Hz	2A
201Hz~400Hz	3A
401Hz~600Hz	4A
601Hz~800Hz	5A
801Hz~1000Hz	6A
1.001KHz~1.9KHz	10A
1.91KHz~4KHz	20A

3. PARTS DESCRIPTION

1. Inductive Clamp Jaw.
2. Clamp Movable Handle.
3. Renge Hold Swith.
4. Range Selector Switch.
5. Power Switch,
6. Liquid Crystal Display. (LCD)
7. Jack for Voltage & Resistance & Frequency Measurement.
8. Wrist Strap.



4. OPERATION

1.Notes:

1. Check if the battery are put in correctly.
2. Be sure LCD and range indicator show the same as the function desired.
3. For general measurement, Peak Hold should be off to raise accuracy.
4. When changing ranges, Please put away tested conductor or circuit to avoid accident.
5. Always keep hand through the wrist strap to prevent carelessly dropping the meter. Also any unnecessary vibration and impacts should be avoided so as not to damage the meter itself.
6. When changing ranges or releasing Peak Hold, be sure the LCD shows "0" before next measurement.
7. Do not measure or connect circuit over AC1200A or 750V.
8. When measuring resistance, do not put

2.ACA measurement

General current measurement

1. Put the power switch on.
2. Select a proper ACA range, Always start from

the top range for any unknown current.

3. After changing ranges, before to make further measurement, be sure the indicator has displayed AC 000A Sometimes, due to the effect of temperature and humidity, it will display AC 002 digit, and that is normal.
4. Press the jaw trigger and insert the conductor to be tested to the middleof jaw area.
5. Read the indicating value. Highest position"OL" at left means overload, and a highter range is required.

Peak current measurement

1. This function is the best for measuring peak value, for instance, the starting current of motor.
2. Push the peak switch on.
3. Select a proper ACA range. Start from the top range for any unknown current.
4. Press the jaw trigger, clamp the conductor to be tested on.
5. Read the indicating value.

3. ACV measurement

1. Select a proper ACV range 400V or 750V (in red letter). Start from the top range if the voltage is unknown.
2. Connect the test lead of voltage & resistance

into the jack of meter.

3. Push the power switch on.
4. Be sure the indicator displays AC 000V sometimes, due to the effect of temperature and humidity, it will display AC 002 digit, and that is normal.
5. Connect the two long ends of test leads to the desired circuit in parallel,and read the indicating value.
6. Peak Hold functions are both available for voltage measurement. For operation, please refer to current measurement.

4. Resistance(Ω) & continuity measurement (•ı)))

1. Adjust the range selector on 4000Ω / •ı)) position.
2. Connect the test lead for voltage & resistance measurement into the jack of meter.
3. Push the power button switch on, and it will show over load.
4. Connect the two long ends of test leads to the desired circuit, and read the indicating value.
5. When making resistance measurement, there should be no voltage in circuit. Any capacitor should be discharged first.

5. MAINTENANCE:

Battery replacement

The sign "⊟" showing up on the indicator means the battery should be replaced.

1. Put off the power switch.
2. Take away the test lead or object under test.
3. Open the bottom battery cover.
4. Loose the battery and the pin with care, and take out the battery.
5. Connect the new battery and the pin, put it back to the compartment.
6. Put on the battery cover.

6. STORAGE

1. This is a precision instrument. The operation should be in compliance with the above description to avoid damage and danger.
2. Keep it away from high temperature, humidity or under direct sunlight.
3. Be sure to put it off after use. For long storage, the battery should be taken out lest the leakage of battery liquid damage the interior parts.

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