

# Three Phase Handheld Electrical Tester, Model: MFC-01

Quality / Accuracy / Reliability

**Introduction:** MFC-01 is a kind of user-tailored, handheld three-phase electrical tester, boasting an optimum cost vs. performance device for power consumption inspection and kilowatt-hour meter on-site verification due to its excellent precision and use as kilowatt-hour meter on site testing apparatus though with some settings omitted. Furthermore, it is also deemed as a necessary inspection or measurement tool for such divisions as Power Consumption Inspection, Power Supply, Measurement / Metering, Dispatching and Relay Protection.



## Functions and Features:

- Can measure many power-frequency electrical parameters both in single and three-phase AC circuits including voltage, current, active power, reactive power, phase, phase-order, power factor and frequency.
- Can vividly display the vector diagrams for three-phase voltage and current, and identify intelligently the wiring results of measuring/metering devices for three-phase four-wire(96 kinds) and three-phase three-wire(48 kinds) respectively.
- Can display the oscillograms for voltage and current, and can measure the harmonic contents of below 32nd and the degree of waveform distortion. Measure the error for both single and three-phase kilowatt-hour meters, as well as the overall error of LV measuring/metering devices.

- Can measure the transformation ratio, transformation ratio error and angle error for LV CT(containing no such function when applied as on-site verification equipment).
- Embedded with 32MB Flash memory and the tester can be regarded as a U-shaped portable storage disk of 32MB.
- Can save the measuring/metering results including information of kilowatt-hour meters, such electrical parameters as voltage, current and power, error, vector diagrams and wiring inspection results regarding kilowatt-hour meters, as well as the calculation of 32nd harmonic. Can save large capacity of data, which is up to 30,000 or above.
- Apply 3.2" TFT true color 320×240 LCD screen with color icons, thus boasting simple/clear and convenient operation.
- Embedded with high-energy lithium-ion cell.

## Specifications:

- Voltage Range: AC30~AC450V

- Current (split core type ammeter) Range:

There are such ranges as 5A, 50A, 500A and 1500A for your choice, work scopes of which are as follows:

Range	5A	50A	500A	1500A
Work Scope (A)	0.25~5.5	2.5~55	50~550	150~1650

- Frequency scope: 45Hz~65Hz, Accuracy:  $\pm 0.01\text{Hz}$
- Phase measurement:  $-180^\circ \sim +180^\circ$ , Accuracy:  $\pm 0.1^\circ$
- Measurement precision: 0.2 class for voltage, current, active power and active electric energy; 0.3 class for reactive power and reactive electric energy
- Input impedance: voltage circuit  $\geq 600\text{k}\Omega$ , current circuit  $\leq 0.01\Omega$
- Working power source: 1500mAh/7.4V lithium cell

- Working power losses: <3VA
- Output standard kilowatt-hour constant: 2000p/kW.h(5A)
- Capacity for embedded U-shaped portable storage disk: 31.5MB
- Operating Temperature:  $-20^\circ\text{C} \sim +50^\circ\text{C}$ , TCR  $< \pm 20\text{ppm}/^\circ\text{C}$
- Outline dimensions: 185 \*95 \*40 (mm)
- Weight: 0.5kg

Product Specifications are subject to change without notice

Manufactured By:

**NEUTRONICS MANUFACTURING COMPANY**

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