

HF-MT-502

# Portable Three-Phase Meter Tester



This portable three-phase meter tester supports on-site accuracy verification, phase sequence detection, wiring error judgment and load simulation. Lightweight and easy to carry, it is widely used for electric energy meter acceptance, periodic inspection and field fault troubleshooting.

## Key features

- Detects errors of metering devices without power cut or rewiring of metering loops to judge equipment faults.
- Measures voltage, current, power, phase angle, power factor, frequency and other electrical parameters to accurately locate faults in metering circuits.
- Measures CT ratio error and phase angle (optional function).
- Displays vector diagrams of three-phase voltage and current for intuitive identification of wiring errors on metering equipment.
- Adopts clamp-on transformers for current loop measurement, allowing fast, convenient, safe and reliable testing without breaking the current circuit.

## Technical specifications

| Parameter                                                             | Value                                                                                          |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Input Characteristics                                                 | Voltage measurement range   2~450V, with automatic range switching                             |
| Clamp-on current transformer measuring range                          | 0.1~5A (20A, 100A, 500A available as optional configurations)                                  |
| Phase angle measurement range                                         | 0 ~ 359.9°                                                                                     |
| Frequency measurement range                                           | 45 ~ 55Hz                                                                                      |
| Accuracy                                                              | Calibrator accuracy class   0.05                                                               |
| Operating Environment                                                 | Operating temperature range   -20°C ~ +50°C                                                    |
| Power Supply                                                          | Operating input voltage   85V ~ 265V AC                                                        |
| Total power consumption                                               | ≤3VA                                                                                           |
| Physical Parameters                                                   | Dimensions (L × W × H)   320mm × 270mm × 140mm                                                 |
| Weight                                                                | 3kg                                                                                            |
| Insulation Performance                                                | Insulation resistance between voltage/current input terminals and instrument casing   ≥100Mohm |
| Withstand voltage performance of working power supply input terminals | Withstands power-frequency AC voltage of 2kV (RMS) for 1-minute test against the outer casing  |

## Compliance and documents

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Applicable standards    | [ TO BE CONFIRMED ] standard applied to this model |
| Calibration certificate | [ TO BE CONFIRMED ]                                |
| Optional accessories    | [ TO BE CONFIRMED ]                                |

## Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.