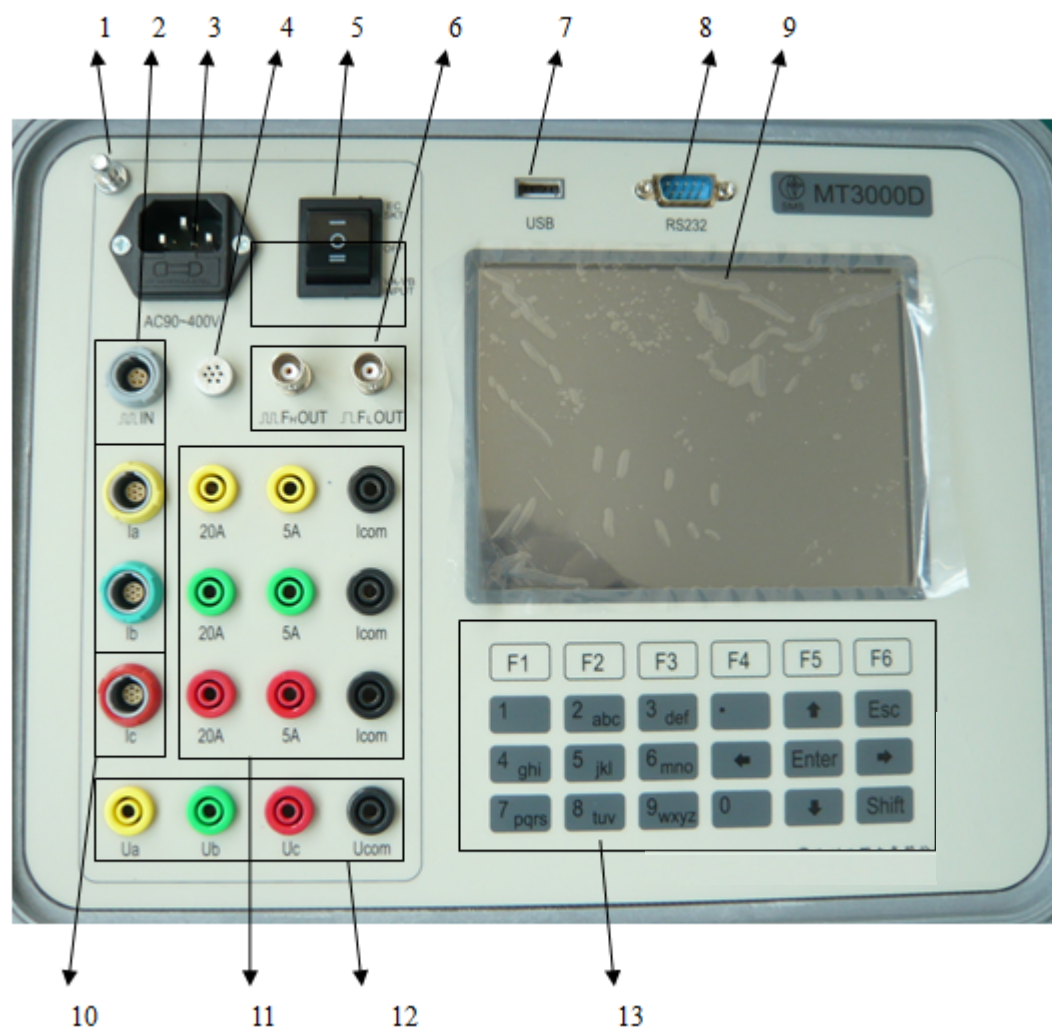


# KPM - THREE PHASE ENERGY METER REFERENCE (MT 3000D)

KPM MT3000D is designed by SMS Electric for electricity & power measurement institute and supervision department to test **Three phase energy meter at site.**

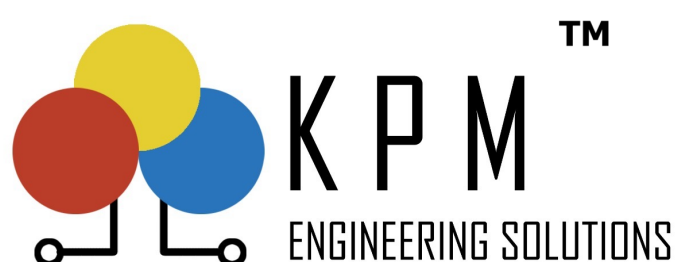


***MT 3000D is a portable Energy Meter Test Reference with 0.1% & 0.05% Accuracy***

## Function

1. It can measure current, voltage, power, phase, frequency at the same time, and calibrate error, with two positions for auto switch.
2. Measure current ratio, waveform display and working temperature and humidity, and calculate power factor.
3. Can display the waveform and distortion for three phases voltage and current at the same time, can analyze harmonic within 51 times.
4. Can judge 144 kinds of wrong connections (three phases three wires: 48 kinds; three phases four wires: 96 kinds).
5. Can measure electric energy, demand and calibrate meter.
6. Can support scanning bar code, test two meters simultaneously .
7. Number input and alphabet input
8. Low power dissipation, use lithium batteries: using 8 hours to 10 hours, power consumption 3.3 W.
9. Large , high quality bright LCD display
- 10 Data administration: The system can display, automatic save and print measured data, can manage and query data
- 11 Equipped with clock can display time and date directly.
- 12 The equipment was equipped with high accuracy CT, which is convenient for measuring low voltage user and metering case.
- 13 Small dimension about 210\*155\*50mm(length\*height\*width), portable, light weight( $\leq 1.1\text{kg}$ ).
- 14 Has three kinds of power supply mode:
  - Voltage measurement end of power supply
  - Lithium batteries of power supply
  - Ac source power supply range: 50V~440V

***LCD screen 6.4 inch display with resolution 640\*480 , the testing data and vector chart can display the same interface.***



# KPM THREE PHASE ENERGY METER REFERENCE (MT 3000D)

## Technical Specifications

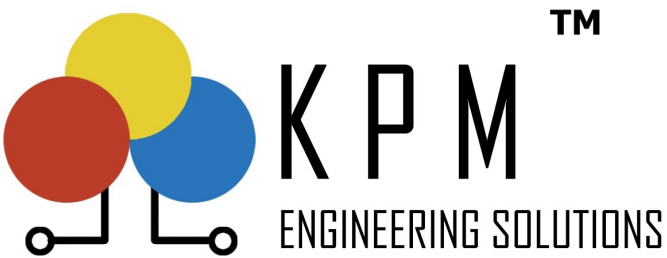
- Accuracy for power and energy : 0.05 cl (reactive power accuracy is 0.1cl )
- Voltage and current measured accuracy: 0.1cl
- Phase measured scope: 0.00° ~359.99° , adjusted resolution 0.01° , Accuracy: ±0.05° (current input>20%Ib); ±1° (20%Ib>current input >10%Ib);
- Frequency measurement: adjusted resolution: 0.001Hz, accuracy±0.01Hz;
- Voltage range: 3\*60V,3\*100V,3\*200V,3\*400V
- Current range:  
Directly connecting measurement  
3\*1A,3\*5A,3\*20A  
Clamp measurement  
(0~5) A, 100A,200A,500A, 1000A Opt.
- Voltage inputting impedance: >400 kΩ;
- Current inputting impedance: <0.05Ω;
- Inputting signals frequency: 45Hz-65Hz;
- Power supply:  
(1) Voltage measurement end of power supply  
(2) Lithium batteries of power supply  
(3) Ac source power supply range: 50V~440V
- **Basic error : (input voltage AC60V ~AC400V)**

Load current	Power factor	Basic error(%)
0.05Ib	1.0	±0.1
0.1Ib~Imax	1.0	±0.05
0.1Ib	0.5(L); 0.8(C)	±0.15
0.2Ib	0.5(L); 0.8(C)	±0.075
0.5Ib~Imax	0.5(L); 0.8(C)	±0.05

Note: Preheating time is 15 minutes.

## Accessories

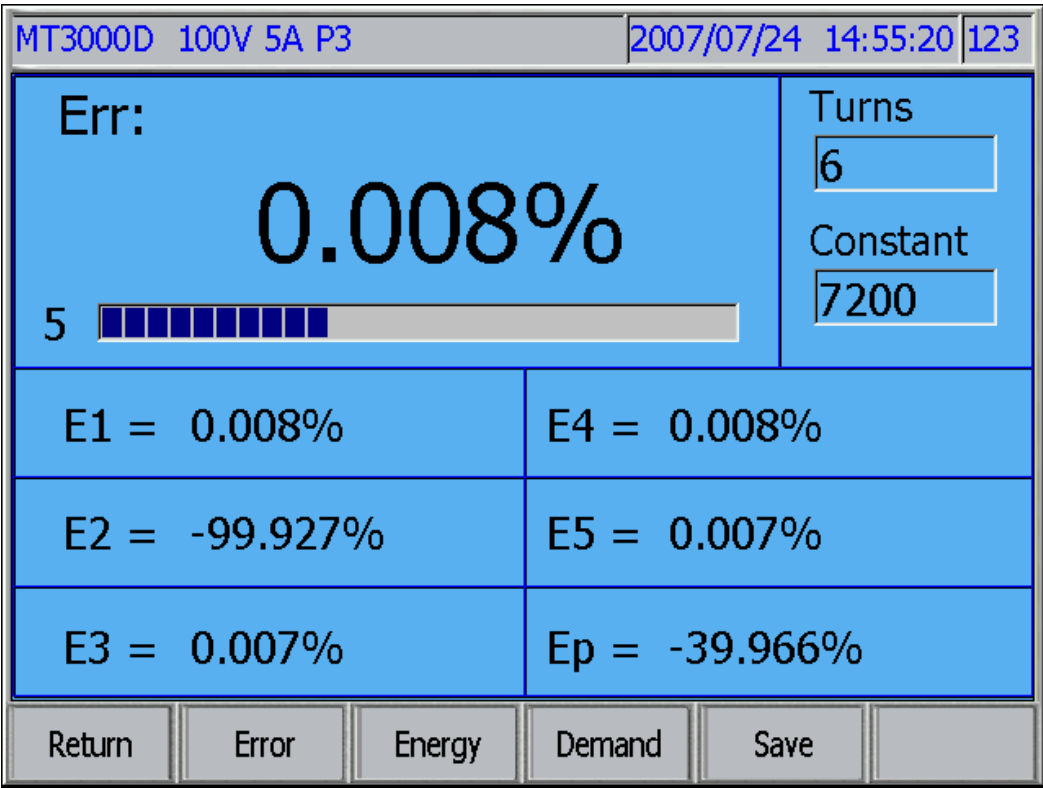
1. Set voltage testing leads - 1 Nos
1. Set of current testing leads – 1 Nos
2. Current clamps (5A) - 3 Nos
3. Electric photo head – 1 No
4. Serial com leads – 1 No
5. User Manual – 1 No
6. MT3000D data management software
7. Impulse input leads – 1 No
8. Impulse output lead (when checking MT3000D ) – 1 Nos
9. Manual switch – 1 No
10. 220V power connected box
11. Power leads
12. big clamp (selectable 100A,200A,500A,1000A ) – 1 No
13. Verification certificate when leaving factory
14. Guarantee card



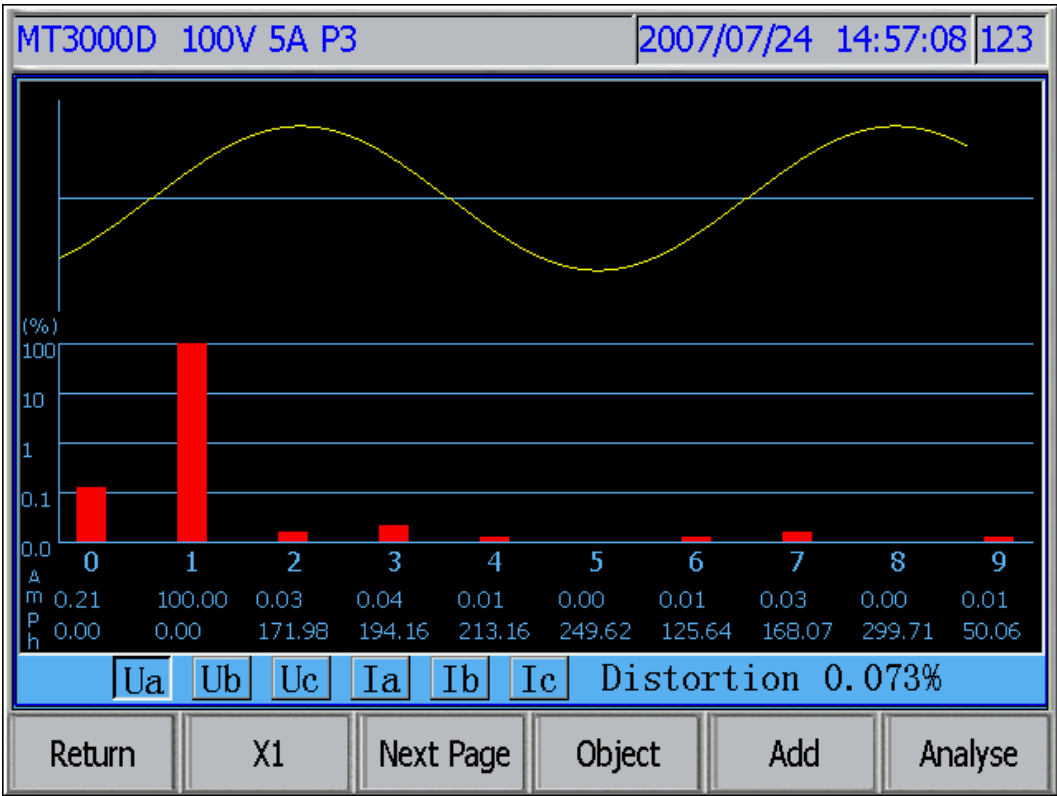
\*All product specifications & pictures are subject to upgrade without prior notification

# KPM THREE PHASE ENERGY METER REFERENCE (MT 3000D)

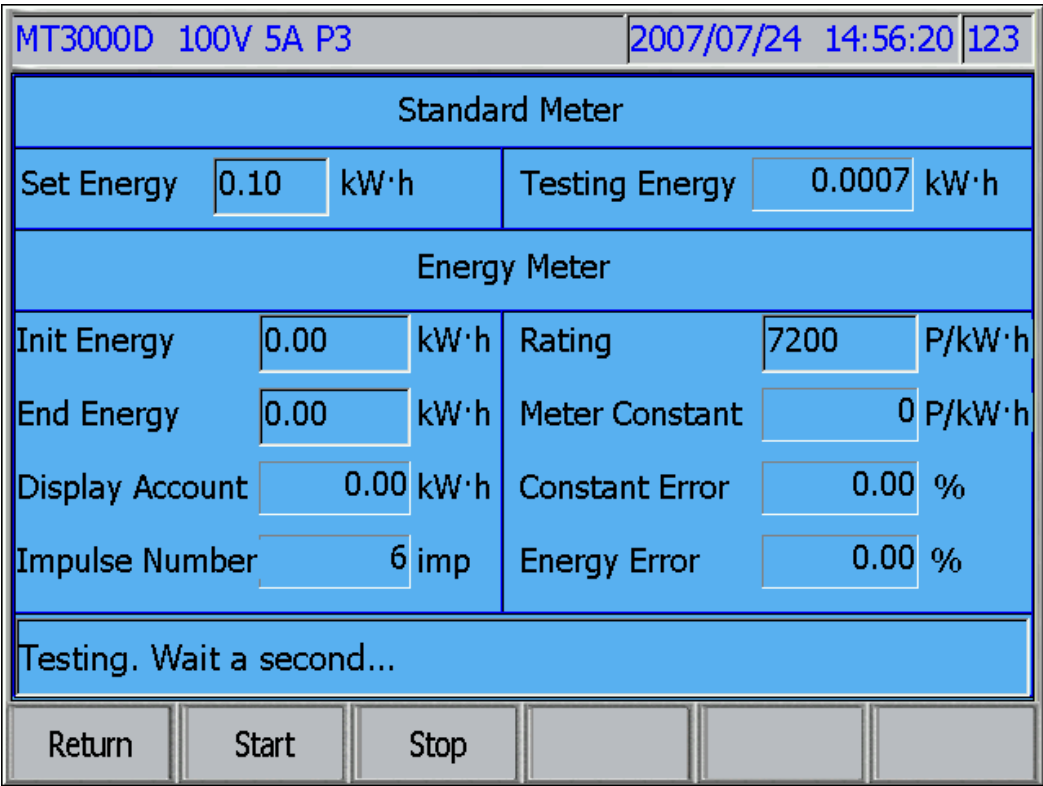
## Features



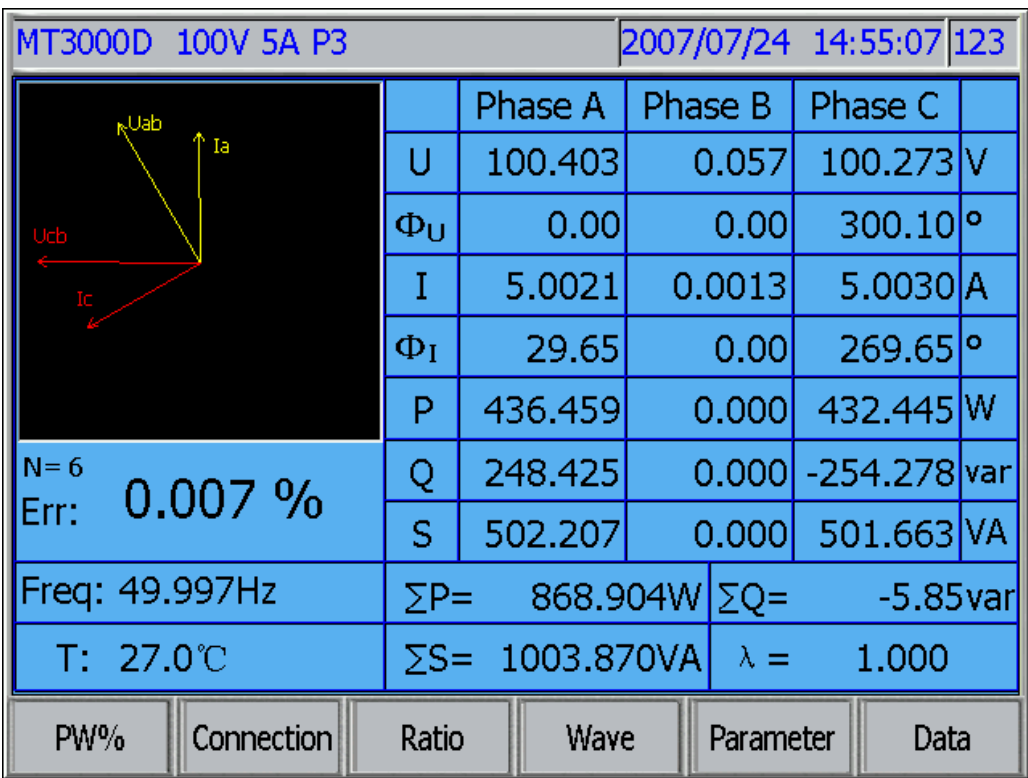
Error Interface



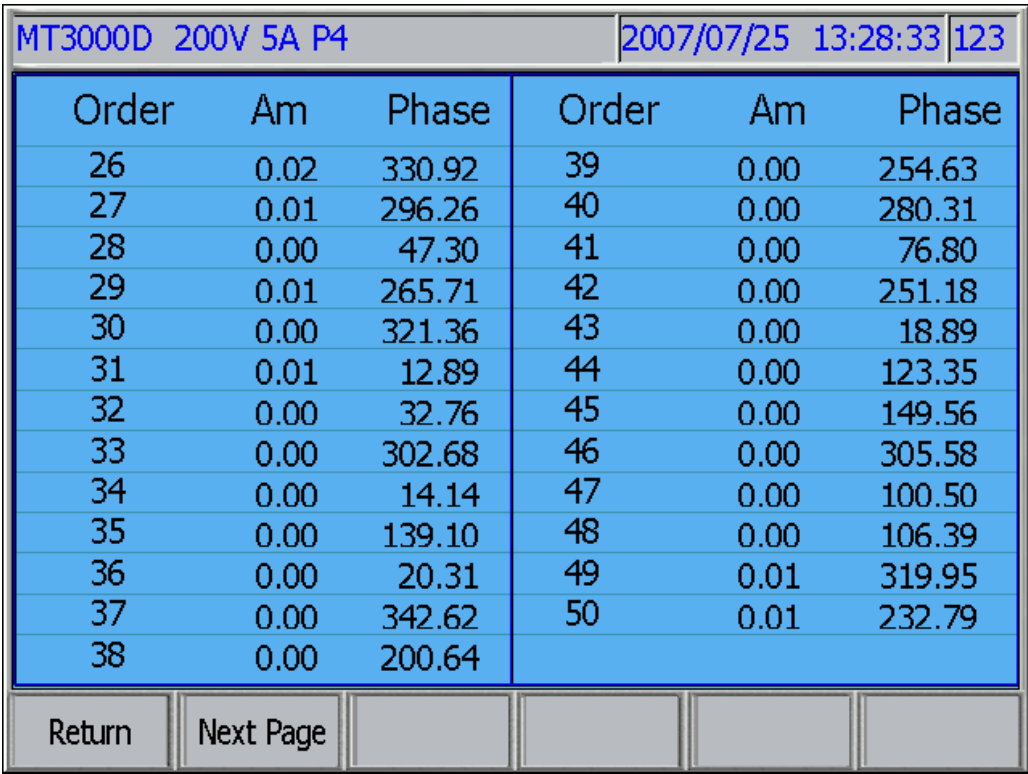
Waveform Interface



Energy Measurement Interface



Vector View & Connection Diagram Interface

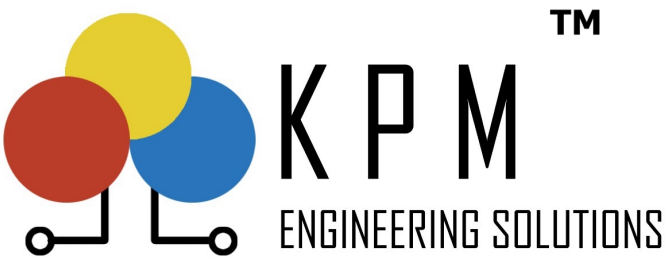


Harmonics Interface

**MT 3000D is having inbuilt temperature sensor which measures the device internal temperature & calculates error accordingly**

**Cautions:** Kindly read the operation manual carefully before field usage  
During measurement never remove the wiring or directly switch off the device  
Always connect body earth terminal to healthy earth

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Phone No : +91 124 4001088



\*All product specifications & pictures are subject to upgrade without prior notification