

MTS-100 Meter Test System(100A)

Phase: 3 Accuracy class: 0.05 or 0.1 AC voltage output: 0-792V AC current output: 0-120A

This Meter Test System features state-of-art designing with high accuracy. It is composed of high accurate (class 0.05% or 0.1%) standard reference meter and power source (up to 120A). This system is particularly designed with modular structure for calibration and test of different single phase/3 phase electronic/inductive active and reactive energy meters.

Main function:	 Calibrate all kind of single/three phase electronic/inductive active and reactive energy meter; Automatically or single-step manually test basic error, creeping, starting, standard deviation of single/three phase energy meter, save user-defined calibrating scheme in Auto calibration; Support variables influence tests, such as: Voltage, frequency, harmonics, reverse phase sequence, Voltage unbalance, etc. Support special tests in energy meter type test, such as: phase triggering, pulse train triggering, etc. Support DLT-645 communication protocol, multi-testing of multifunction meter such as: demand indication error, demand cycle error, time slot switching error, energy error of different tariff period, etc. With OCXO, daily error of energy meter can be detected; Output 2nd ~63rd harmonics.
Main features:	 8" color touch screen, interface friendly, easy to operate; Equipped with RS232, Ethernet, and WiFi interface, MTS-100 can either support stand-alone operation, PC control or handy wireless terminal control; Communicate with tested meters thru RS-485; Automatically calculate the error of meter, and the related data can be downloaded thru U-disk; Self-protection, alarming and displaying overload location for equipment output overload, Voltage short-circuit, Current open-circuit; Automatically detect, diagnose and alarm for failure. Remotely updating online, easily achieve software updating; Support calibration by user locally.
Order Info	MTS-100 contains 2 models with different accuracy below: MTS-100C: Accuracy Class 0.05 MTS-100B: Accuracy Class 0.1
Technical Specification	AC Voltage output: Range: 100V, 220V, 380V; Adjusting range: $(0\sim120)$ %RG, RG refers to range; Adjusting resolution: 0.01%RG, 0.1%RG, 1%RG, or 10% RG; Stability: 0.01%/2min (Class 0.05), 0.02%/2min (Class 0.1); Distortion: $\leq 0.2\%$ (Non capacitive load); Max output load: 20VA each phase; Accuracy: 0.05%RG (Class 0.05), 0.1%RG (Class 0.1);

Range:

Stability:

Distortion:

Accuracy:

AC Current output:

Technical **Specification**

0.05A, 0.2A, 1A, 5A, 20A, 100A Adjusting range: (0~120) %RG, RG refers to range, similarly hereafter Adjusting resolution: 0.01%RG, 0.1%RG, 1%RG, or 10% RG 0.01%/2min (Class 0.05), 0.02%/2min (Class 0.1) ≤0.2% (Non capacitive load) 120VA (100A range) Max output load: 0.05%RG (Class 0.05); 0.1%RG (Class 0.1)

Power output

Power output stability: 0.01%/2min (Class 0.05), 0.02%/2min (Class 0.1) Active/reactive power measurement accuracy: 0.05%RG;

0~+1:

Phase output

Output adjusting range: 0°~360°; Output adjusting resolution: 10°, 1°, 0.1°, or 0.01°; Resolution: 0.01°; 0.05°. Measurement accuracy:

Power factor output:

Adjusting range:	-1 ~ 0 ~
Measuring resolution:	0.0001;
Measurement accuracy:	0.0005

Frequency output

Adjusting range:	40Hz ~70Hz;
Output adjusting resolution:	1Hz, 0.1Hz, 0.01Hz, or 0.001Hz;
Resolution:	0.001Hz;
Accuracy:	0.002 Hz.

Harmonic setting

Harmonic order:	2 nd ~63 rd
Harmonic amplitude:	0~40%
Harmonic angle:	0°~359.99°
Harmonic set error:	2~31times: ≤±0.1%, 32~63 times: ≤±0.2%;

Energy error measurement:

Active energy basic error limit: ±0.05%RD (Voltage 15V~660V, Current 0.02A~120A, PF≥0.5); ±0.1%RD (Voltage 15V~660V, Current 0.01A~0.02A, PF=1); Reactive energy basic error limit: ±0.1%RD (Voltage 15V~660V, Current 0.02A~120A, PF≥0.5); ±0.2%RD (Voltage 15V~660V, Current 0.01A~0.02A, PF=1);

Energy pulse input

Input pulse:

3 channels active, 3 channels reactive

Other parameters:

Power supply: Power frequency: Power consumption: Environment condition: Storage environment: Size: Weight:

90-265VAC/DC 50Hz~60Hz 50VA~1000VA 20°C~30°C, Humidity: RH≤85% -20°C~50°C 600(L)*440(W)*266mm(H) 35kg