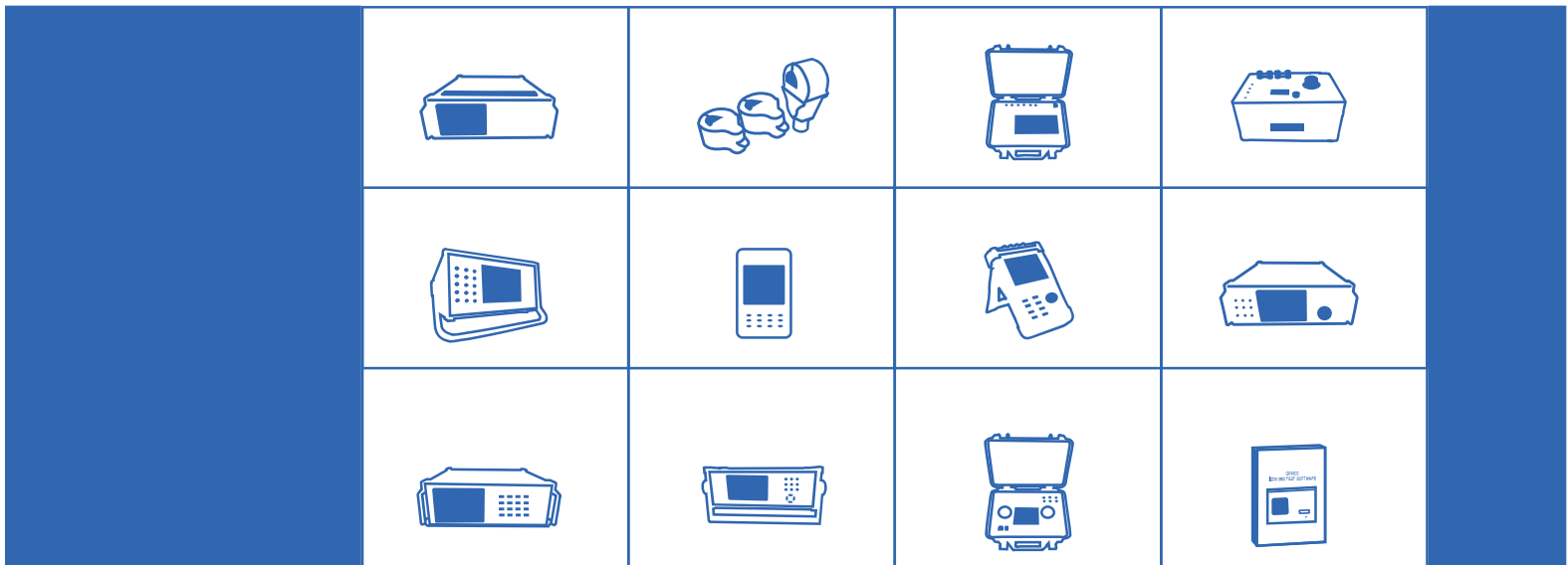














TEST EQUIPMENT

PRODUCT CATALOG



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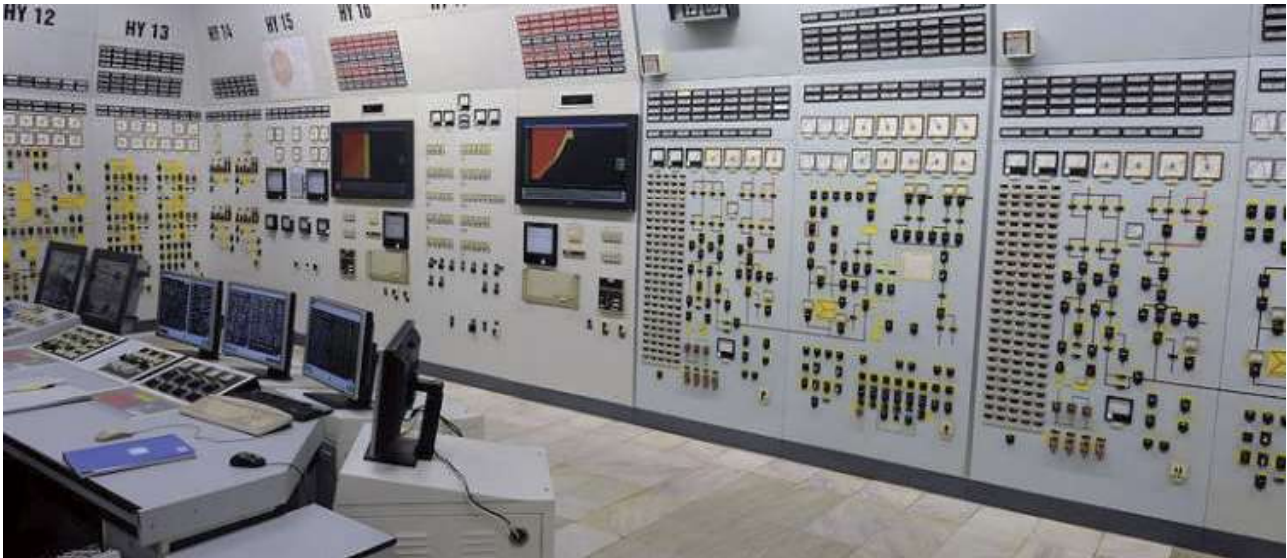


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Energy Meter Test Equipment

GFUVE portable meter test equipment are especially designed for testing of energy meter installations on-site or in the laboratory. Its functionality meets all requirements for comprehensive meter testing. We distinguish between reference meters / meter calibrator, standard power sources and meter test equipment. its accuracy is from 0.2% up to 0.02%. Meeting standards IEC60736 & ANSI C12.1-2014.



GF302D

THREE PHASE KWH METER TEST EQUIPMENT

Automatic and manual test meter error
1P2W, 1P3W, 3P3W, 3P4W
0.05%, 0.1%
0-120A, 0-500V, 40-70Hz
2-51th harmonics
7 inch Touch TFT color LCD



GF302D1

THREE PHASE ENERGY METER TEST EQUIPMENT

Automatic test meter error
1P2W, 1P3W, 3P3W, 3P4W
0.02%, 0.05%, 0.1%
0-120A, 0-500V, 40-70Hz
2-51th harmonics
Portable design



GF102

SINGLE PHASE ENERGY METER TEST BENCH

Automatic and manual test 1P2W meter error
0.02%, 0.05%, 0.1%
0-120A, 0-500V, 40-70Hz
2-51th harmonics
With 3-position meter version
As ac current source & voltage source



GF1021

PORTABLE METER TEST EQUIPMENT

Automatic and manual test single phase
meter error on site
0.05%, 0.1%, 0.2%
0-120A, 0-300V, 45-65Hz
2-51th harmonics
With 100A clamp on ct
Built in 1A, 5A, 10A phantom load



GF302D3

THREE PHASE ELECTRIC METER TEST BENCH

Automatic and manual test meter error
Accurate output 1mA current
1P2W, 1P3W, 3P3W, 3P4W
4 quadrant measurement
Set multiple load points
0-120A/0-500V/0-360.00/40-70Hz
Class 0.02 or 0.05
With 3-position meter version
Test bench design in lab





GF6019D

DC ENERGY METER TEST EQUIPMENT

Automatic testing all kinds of DC energy meter error
Automatic & manual testing DC power meter
Testing all kinds of DC ammeter, DC voltmeter
Accuracy 0.05%
0-120A/0-800V
5.7 inch TFT screen
Portable design
1000 sets data recorder
As DC current source and voltage source



GF312V2

THREE PHASE MULTIFUNCTION METER CALIBRATOR

0.05%, 0.1%
0-12A/0-576V/40-70Hz/0-360.00
With 5A/100A/1000A/2000A clamp on ct
Test 3P & 1P meter error
Test CT and meter's combination error
2-51th harmonics
Handheld design
Display vector & waveform
7 inch touch TFT color LCD
CT & PT programmed
Check phase angle
IEC60736 Standard



GF312D1

THREE PHASE ENERGY METER CALIBRATOR

0.05%, 0.1%, 0.2%
0-20A/0-480V/45-65Hz/0-360.00
Test 3P & 1P meter error
Test CT and meter's combination error
2-63th harmonics
Display vector
Display waveform
CT & PT programmed
Handheld design
IEC60736 Standard





GF312B

THREE PHASE METER CALIBRATOR WITH PRINTER

0.05%, 0.1%
 Test 3P4W, 3P3W, 1P2W & 1P3W meter error
 Built in printer
 6.4 inch TFT color LCD
 2-63th harmonics
 Display vector and waveform
 Test CT ratio
 Check wiring



GF312B2

THREE PHASE REFERENCE METER

High precision 0.02%
 0-120A/0-576V/45-65Hz/0-360.00
 With 5A/100A/1000A/2000A clamp on ct
 Test 3P & 1P meter error
 CT burden test
 PT burden test
 2-51th harmonics
 Portable design
 Display vector & waveform
 7 inch touch TFT color LCD
 CT & PT programmed



GF112

Class 0.2
 Handheld, 1KG
 With 100A clamp on ct
 built-in 5A load
 Energy accumulation function
 Divided design
 External mini printer



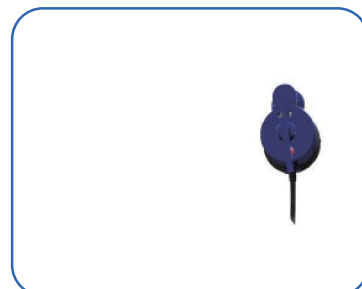
GF112B

Class 0.2 0-120A, 0-300V
 Handheld, 0.25KG
 Small site
 Measurement 1mA
 Integrated design



GF112D

0.2%, 0.5%
 0-120A, 0-300V
 Handheld, 0.3KG
 3.2 inch touch TFT LCD
 Accumulated energy
 Integrated design





Electrical Calibrator

Application

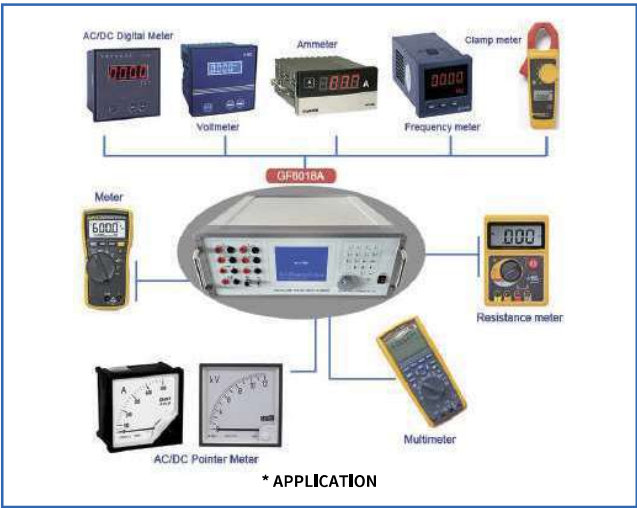
- Electrical Laboratory
- Power plant
- Electric Power Company
- Power commissioning company
- Multimeter Manufacturing Enterprise
- Electrical Inspection Institution
- Electrical Laboratory of Colleges and Universities
- Metrological Departments of Industrial and Mining Enterprises



GF6018A
CLAMP TYPE MULTIMETER CALIBRATOR

0-20A, 0-1000V AC/DC
 Test AC/DC voltmeter
 Test AC/DC ammeter
 Test resistance meter
 Test clamp meter
 Test frequency meter
 Test multimeter
 Test oscilloscope

*** FEATURE**



MULTIFUNCTION INSTRUMENT CALIBRATOR

- 0-20A/0-600V/0-360.00/45-65Hz AC
- 0-20A/0-1000V DC
- High precision 0.05%
- Window XP system
- Test AC/DC voltmeter & ammeter
- Test AC/DC transducer
- Test energy meter & power meter
- Test RTU & AC sampler device
- Test frequency meter
- Test phase angle meter



GF3021



GF302

MULTI-PRODUCT CALIBRATOR

- 0-20A/0-800V/0-360.00/45-65Hz AC
- 0-20A/0-1000V DC
- High precision 0.05%
- 2-31st harmonics output
- Test AC/DC voltmeter & ammeter
- Test AC/DC transducer
- Test energy meter & power meter
- Test RTU & AC sampler device
- Test frequency meter
- Test phase angle meter

PORTABLE PANEL METER CALIBRATOR

- 0-20A/0-800V/0-360.00/45-65Hz AC
- 0-20A/0-1000V DC
- High precision 0.05%
- Test AC/DC voltmeter & ammeter
- Test energy meter & power meter
- Test frequency meter
- Test phase angle meter
- As three phase power source
- As DC voltage & current source



GF302C



Power Source

GF303D

THREE PHASE VOLTAGE AND CURRENT SOURCE

Accuracy 0.02%, 0.05%, 0.1%
0-120A/0-600V/40-70Hz/0-360.00
2-51th Harmonics
Phase angle accuracy 0.02°
Multiple load points setting
Program-controlled



GF3031

THREE PHASE POWER SOURCE

Accuracy 0.05%, 0.1%
0-120A/0-500V/40-70Hz/0-360.00
2-51th Harmonics
7 inch touch TFT color LCD
High stability 0.01%/min
Display vector and waveform
With RS232



GF101

SINGLE PHASE PHANTOM LOAD POWER SOURCE

Accuracy 0.02%, 0.05%, 0.1%
0-120A/0-500V/40-70Hz/0-360.00
2-51th Harmonics
Phase angle accuracy 0.02°
Multiple load points setting
Program-controlled with RS232
7 inch touch TFT color LCD
Warranty 3 years



GF6019

DC STANDARD POWER SOURCE

Test DC voltmeter & ammeter
Test DC power meter and DC transducer
Accuracy 0.02%, 0.05%
0-30A/0-1000V
As DC voltage source or current source
Stability 0.01%/min



Reference Standard Meter

This product can be widely used in fields of electric energy measuring, electric energy laboratories and other relevant industry, not only in laboratories but also at the industrial field or R & D department.



GF333V2

THREE PHASE POWER AND ENERGY REFERENCE STANDARD

Accuracy 0.02%, 0.05%
0-240A/0-600V/40-70Hz/0-360.00
2-51th Harmonics measurement
Phase angle accuracy 0.02°
Communication with RS232
7 inch touch TFT color LCD
As 3 phase reference standard
Suit for testing in the lab
Energy accumulating function
Analysis of waveform distortion
Display vector of U & I
Warranty 3 years



GF333B

THREE PHASE REFERENCE STANDARD METER

Accuracy 0.05%
0-120A/0-480V/45-65Hz/0-360.00
2-128th Harmonics measurement
Phase angle accuracy 0.02°
Communication with RS232
7 inch touch TFT color LCD
As 3 phase reference standard
Suit for testing in the lab
Energy accumulating function
Display vector of U & I
Warranty 3 years





IEC 61850 Testing Software

GF4600 IEC61850 conformance testing system

IEC61850 MMS CLIENT SIMULATION
IEC61850 MMS SERVER SIMULATION
IEC61850 MMS AUTOMATED TESTING
GOOSE SIMULATION
SMV SIMULATION
IEC61850 COMMUNICATION PROTOCOL ANALYSIS
SNTP SIMULATION
MODEL CHECKER



Check Model



61850 client



Dynamic
Conformance



61850 Server



Smart Terminal



Merging Unit



Capture Packets



Timesync Test

ACCESSORY

Energy meter scanning head



(1)



(2)

Clamp on ct

Q8A	Q13	P18	P50	Q110	PARAMETER
					Class 0.1, 0.2, 0.5
					Low phase shift
					0.1Hz-2MHz Bandwidth
					Permalloy core
					UL, CE mark
					EN61010-2-032:2012
					Harmonics measurement

Rogowski coil

FQ-RCT02	PARAMETER
	Linearity 0.2%
	Current range 0-10KA
	0.1Hz-10MHz bandwidth
	40mm, 60mm, 100mm
	1000A/100mv or 1000A/58mv
	High-quality magnetic material
	Coil diameter 8mm
	EN61010-2-032:2012
	With integrator
	0-10KA/4-20mA output