



Protection Relay Test Solutions IEC61850 Test Solutions Amplifier for Power Simulation Application



Products introduction



PW636i Universal Test System

- ❖ 6×32A, 4×300V
- ❖ 8 binary inputs and 8 binary outputs, 4 counter inputs, 12 low level outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ DC measuring inputs
- ❖ In-built output monitoring and recording function
- ❖ IEC61850 test optional



PW460 Universal Test System

- ❖ 6×15A, 4×300V
- ❖ 8 binary inputs and 8 binary outputs, 4 counter inputs, 12 low level outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ DC measuring inputs
- ❖ In-built output monitoring and recording function
- ❖ IEC61850 test optional



PW336i Universal Test System

- ❖ 6×15A, 4×150V
- ❖ 8 binary inputs and 4 binary outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ In-built output monitoring and recording function
- ❖ IEC61850 test optional



PW466i Universal Test System

- ❖ 6×20A, 6×150V
- ❖ 8 binary inputs and 4 binary outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ In-built output monitoring and recording function
- ❖ IEC61850 test optional
- ❖ Independent amplifier interface for external simulation system



L336i Universal Test System

- ❖ 6×15A, 4×300V / 3×20A, 4×300V*
- ❖ 8 binary inputs and 4 binary outputs
- ❖ IEC61850 test optional
- ❖ Weight: 8.6kg
- ❖ Size: 256×110×395mm

*Economic Version



POM2-6143 Universal Test System

- ❖ 6×15A, 4×300V
- ❖ 8 binary inputs and 8 binary outputs, 12 low level outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ DC measuring inputs
- ❖ IEC61850 test optional



POM2-3243 Universal Test System

- ❖ 3×20A, 4×300V
- ❖ 8 binary inputs and 8 binary outputs, 12 low level outputs
- ❖ Adjustable threshold for binary inputs
- ❖ Auxiliary DC (0-300V)
- ❖ DC measuring inputs
- ❖ IEC61850 test optional



PW41i Universal Test System

- ❖ 3×40A, 3×300V
- ❖ Auxiliary DC (24V, 110V, 220V)
- ❖ 4 binary inputs and 4 binary outputs
- ❖ Local control with LCD
- ❖ Can Import Test Templates



S40A Universal Test System

- ❖ 3×40A, 3×300V
- ❖ Auxiliary DC (24V, 110V, 220V)
- ❖ 4 binary inputs and 1 binary outputs
- ❖ Local control with LCD display



T200A Universal Tester

- ❖ 1×250Aac, 1×20A ac/dc, 1×200mA ac/dc
- ❖ 1×500Vac, 1×120V ac/dc, 1×300Vdc
- ❖ Auxiliary DC (0-240V)
- ❖ 2 binary inputs and 1 binary outputs
- ❖ In-built voltmeter and ammeter
- ❖ Long output time: 120s at 250A



PNS610 Portable Analyzer

- ❖ Signal Probe and Value Analysis Specifications:
- IEC61850 - 9 - 2 / LE signal samples
- IEC61850 - 8 - 1 GOOSE signal
- IEC60044 - 7 / 8 optical serial signal
- Support IRIG-B、IEC61588/IEEE1588



PCT 200 Series CT/PT Test System

- ❖ Test Standard:
- IEC60044-1/6, IEC61869-2 and ANSI/IEEE C57.13
- ❖ One test can get all CT parameters
- ❖ Fast test for excitation check
- ❖ Also can do the PT test
- ❖ PCT series: PCT 200Ai PCT 200i



PNS630 Handheld IEC61850 Analyzer

- ❖ 7.0 inch touch screen
- ❖ 4 Ethernet optical ports, 2 ST Serial optical ports
- ❖ 1 pairs binary inputs, 1 pairs binary outputs
- ❖ Available programmable upgrade, all in one Micro SD card
- ❖ Receiving and sending IEC61850-9-1/2 and IEC60044-7/8
- ❖ Measuring received fiber optical power
- ❖ IEEE1588 synchronization
- ❖ GPS Synchronization interface ,IRIG-B code interface



T1000 Primary Injection and Test Equipment

- ❖ 1×1000Aac/7000VA
- ❖ 1×250Vac/750VA
- ❖ 1×300Vdc/600W
- ❖ In-built ammeter function
- ❖ 120s continuous output time at 1000A



PNA1000 Digital Substation online monitoring and analyzing System

- ❖ Vast recording and storage capacity: 1100Mb/s
- ❖ Data process accuracy: 100%
- ❖ High accuracy: frame lost rate: 0%
- ❖ 24-hours online monitoring and analyzing network communication in digital substation
- ❖ Warning, Detecting and excluding, etc for the network message communication



NF801 Intelligent Relay Tester

- ❖ 8 Fiber Optical Ports
- ❖ Receiving and sending IEC61850-9-1/2 and IEC60044-7/8 Measuring received fiber optical power
- ❖ IEEE1588 synchronization
- ❖ GPS Synchronization interface
- ❖ IRIG-B code interface
- ❖ 12 independent Low level output



FT 3000 Power Filter Characteristic Tester

- ❖ Precisely and automatically complete power filter amplitude frequency and phase frequency characteristic measurement
- ❖ Automatically measure power filter by parameters of reactor, capacitor and resistor
- ❖ Compensate and measure capacitor group unbalanced current 0.01 mA—10 mA



NF802 Intelligent Relay Tester

- ❖ 8 Fiber Optical Ports
- ❖ Receiving and sending IEC61850-9-1/2 and IEC60044-7/8
- ❖ Measuring received fiber optical power
- ❖ IEEE 1588 synchronization
- ❖ GPS Synchronization interface
- ❖ IRIG-B code interface
- ❖ 12 independent Low level output
- ❖ Local control System based in Windows



TD series DC Current Tester

- ❖ TD series testing equipment consists of control unit and DC high current output unit. It outputs 0-2000A/0-4000A DC with the accuracy of 0.1% high accuracy DC current used in HVDC convertor station and testing DC current transformer characteristics.

Amplifier for Real Time Digital Simulator



Panel Mount Type

- ❖ PAC2000B 1X200A RMS, 2400VA/phase
- ❖ PAC60Ci 6X30A RMS, 450VA/phase
- ❖ PA60Bi 3X60A RMS, 800VA/phase
4X120V RMS, 60VA/phase
- ❖ PA30Bi 3X30A RMS, 450VA/phase
4X120V RMS, 60VA/phase
- ❖ PA30Bi-H 3X30A RMS, 450VA/phase
4X250V RMS, 75VA/phase
- ❖ PAV250Bi 6X250V RMS, 75VA/phase
- ❖ PAV120Bi 6X120V RMS, 60VA/phase



Portable Type

- ❖ PAC60Cip 6X30A RMS, 210VA/phase
- ❖ PA60Bip 3X60A RMS, 800VA/phase
4X120V RMS, 60VA/phase
- ❖ PA30Bip 3X30A RMS, 210VA/phase
4X120V RMS, 60VA/phase
- ❖ PA30Bip-H 3X30A RMS, 210VA/phase
4X250V RMS, 75VA/phase
- ❖ PAV250Bip 6X250V RMS, 75VA/phase
- ❖ PAV120Bip 6X120V RMS, 60VA/phase

PONOVO Template Service

PONOVO provides relay test templates based on relay model from different relay manufactures. With the use of template the relay test work can be simplified greatly. Each relay test template is one independent file which can be opened in PowerTest relay test software. Registered users can download Basic Template for free use. Customers can contact us to get Customized Test Templates.



LZ96
REG100
REL511
REL531
MSOC
RAZFE
REB670
REC670
REF542
REG216
REL300
REL316
REL350
REL352
REL356
REL511
REL512
REL521
REL531
REL561
REL650
REL670



CAG17
CTIG
CTIGM
CTMFM
CTMM
CTNM
CTT
CTTM
CTU
DIFB
MFVUM
Micromho
MVAPM
MWTU
Optimho
P111
P115
P120
P121
P122
P123
P124

P127
P141
P142
P143
P144
P145
P241
P242
P243
P342
P343
P344
P345
P430
P437
P433
P435
P436
P438
P441
P442
P443

P921
P922
P923
P940
P941
P942
P943
PPX
PVMM
Quadromho
SKE
SKD
VAGM22
VAPM
P632
P633
P634
P642
P643
P645



SEPAM 10
SEPAM 80
SEPAM 2000
SEPAM S42
T20



Sr489
SR745
F650
SR750
GT60
D60
DLPD
G30
L90
Ge345



SEL300
SEL351
SEL587
SEL311B
SEL487B
SEL487E
SEL167

SEL411
SEL311C
SEL311L
SEL321
SEL421
SEL501
SEL587



7RW600
7SA6XX
7SA511
7SA513
7SA518
7SA519
7SA522
7SD5
7SD52
7SD63
7SJ61
7SJ63
7SJ80
7SS52
7ST6
7UM61
7UM62
7UM512
7UM515



GRB100
GRD110
GRD140
GRD150
GRF100
GRL100



PCS-902
RCS-915
RCS-931
RCS-993
RCS-902
PCS-9611
PCS-902H
PCS-931D
PCS-9611C



MRA4
MRDT4
MRI4
MRM
MRN



F_PRO
L_PRO
T_PRO



VAMP 255
VAMP 265



PCT210

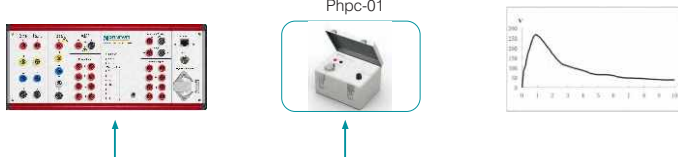


326GD

More Templates can be download from our website www.relaytest.com

Optional Accessories

- Current Booster (Phpc01)



Phpc01 current booster is designed to supply high compliance voltage even at small current range, suitable for testing high burden electromagnetic current relays.

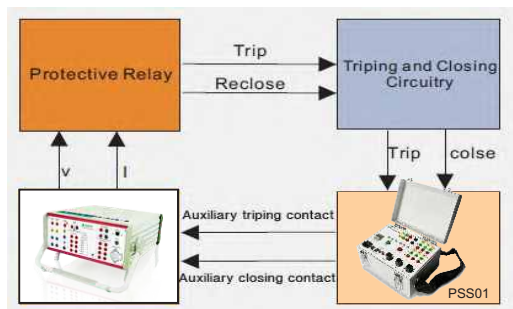
- GPS synchronization (PGPS02/PGPS04i)



PGPS02: It provides GPS synchronization signal in PPS (pulse per second) or PPM (pulse per minute) for synchronized test. Trigger time can be set for end-to-end test application.

PGPS04i: The PGPS04i is a multi-functional time synchronization device that integrates with GPS time synchronization, IRIG-B(DC-TTL/DC-RS422/optical) outputs, IRIG-B(DC-TTL/DC-RS422/fiber) pulse input, 1PPS\1PPM(DC-TTL/DC-RS232/fiber) pulse output, timing set of whole trigger points, real-time clock auto-generating and other relevant functions.

- Circuit breaker simulator(PSS01)



Working together with PONOVO relay testing device, PSS01 is to be used to simulate the circuit breaker operation for checking the relay scheme performance. Complicated software settings can be avoided by using this simple accessory.

- Scanning Head (PACB108)



The passive optical scanning head PACB108 detects the status of an LED, that is either an optical pulse output from an energy meter or the binary status of a protective relay or other similar optical source.

Professional Solution Provider For The Power World

PROFESSIONAL SOLUTION PROVIDER FOR THE POWER WORLD



Authorized Distributor for Sales, Marketing & Service:

Manufacture at:

ii Agrata
Originates

No 61, 1st Floor, 2nd Cross, Central Excise Layout,
Vijaynagar, Bangalore-560040. INDIA
Mob:+91-9108080300
e-mail: mktg.agrata@gmail.com

 PONOVO POWER CO., LTD.

No.139 Jinghai Third Road, BDA, Beijing, China. 100176
Tel : +86 (10) 59089666 Fax : +86 (10) 59089999
www.relaytest.com