Optional Accessories

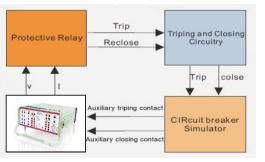
Current Booster (Phpc01)

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



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

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

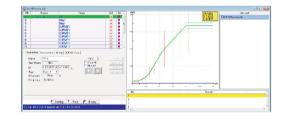
PowerTest Relay Test Software

Start Page



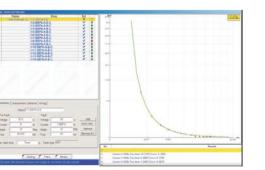
Differential

Differential module is suitable for use the 6 output current channels' relay tester, which is applied on transformer, generator and bus bar etc. differential protection equipment test. Because of adopting the 6 currents output, it realizes the two sides three phases test between relay tester and relay equipment.



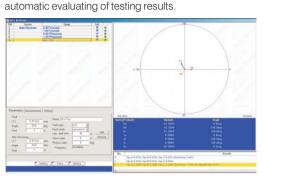
Inverse time overcurrent

This module realizes the directional over-current test and non-directional over-current test. This module also include: testing positive sequence, negative sequence and zero sequence instantaneous time over-current, over-heat protection inverse time over-current or the customized "Current/Time" operation characteristic.



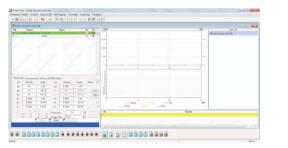
Auto-reclosing

Auto-reclosing module is the specific module which is applied to test the reclose function. This module can realize that relay automatic reclosing with checking the difference between system and unit, checking the synchronization setting, reclose set time checking and



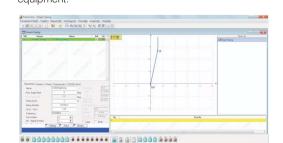
State Sequence

In the State-Sequence module, the relay tester can output multiple continuous state sequences. This module can help user to do customized test.



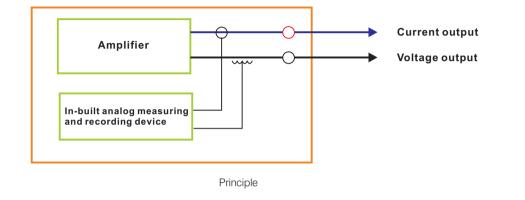
Power swing

Power swing module is applied to simulate the power system swing and test the generator losing synchronization and normal network splitting equipment.

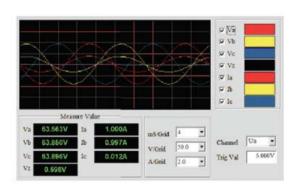


In-built analog monitoring & recording unit

This in-built analog monitoring and recording unit samples the actual current/voltage outputs and real-time output waveform can be displayed in the software. This makes it easy to check the correctness of wiring before the test and observe the output during the test process



Real-time output waveform display helps the fast trouble shooting of wiring and test circuitry before test is actually started. User can also use this provision to analyze the external signals, such as phase angle, power, harmonic, etc.



Real-time outputs display

IEC 61850 Function

PW460 provides analog voltage/current signal to relay and the GOOSE message from relay is received and interpreted by relay test equipment.



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 the relay templates from PONOVO website. The following are some typical relay templates for some popular relays from relay manufactures.

ARR AREVA

1.700	04047	D407
LZ96	CAG17	P127
REG100	CAG37	P141
REL511	CDD	P142
REL531	CDG 11	P143
MSOC	CTIG	P144
RAZFE	CTIGM	P145
REB670	CTMFM	P241
REC670	CTMM	P242
REF542	CTNM	P243
REG216	CTT	P342
REL300	CTTM	P343
REL316	CTU	P344
REL350	DIFB	P345
REL352	EAP3100-350	P430
REL356	Generic Mho	P437
REL511	KBCH	P433
REL512	KCEU 141 241	P435
REL521	KVFG	P436
REL531	LFZP	P438
REL561	LFZR	P441
REL650	LGPG	P442
REL670	MBCH	P443
RET521	MCGG	P444
RET670	MFVUM	P445
REZ1	Micromho	P521
SPAC150C	MVAPM	P543
SPAC310C	MWTU	P544
TPU2000R	Optimho	P545
	P111	P546
	P115	P547
	P120	P631
	P121	P632
	P122	P633
	P123	P634
	P124	P642
	1 144	. 0 .2

P125

P126

7SA511 SEPAM 2000 7SA513 SEPAM S42 **B**GL SR745 SEL300

7SA6XX

SEPAM 10

SEPAM 80

F650

GT60

D60

G30

L90

Ge345

SEL351

SEL587

SEL311B

SEL487B

SEL487E

SEL167

SEL411

SEL311C

SEL311L

SEL321 SEL421

SEL501 SEL587

SEL701

SEL751

SEL751A

SEL787

DLPD

P922

P923

P940

P941

P942

P943

PPX

SKE

SKD

VAGM22

VAPM

PVMM

Quadromho

7SA518 GRF100 7SA519 GRL100 7SA522 GRL150 7SD5 GRT100 7SD52 GRZ100 7SD63 7SJ61 7SJ63 PCS-902 RCS-915 7SJ80 7SJ600 RCS-931 RCS-993 7SL24 RCS-902 7SS52 PCS-9611 7ST6 PCS-902H 7UM61 PCS-931D 7UM62 PCS-9611C 7UM512 7UM515 WOODWARD 7UM516 MRA4 7UT6xx MRDT4 7UT51 MRI4 7UT512 MRM 7UT6127VE6 7VE61 7VE63 4 SIFANG ARGUS 1 326GD DCD121A DCD125A VAMP F PRO VAMP 255 T PRO VAMP 265 www.adv-cs.com PCT210

TOSHIBA

GRB100

GRD110

GRD140

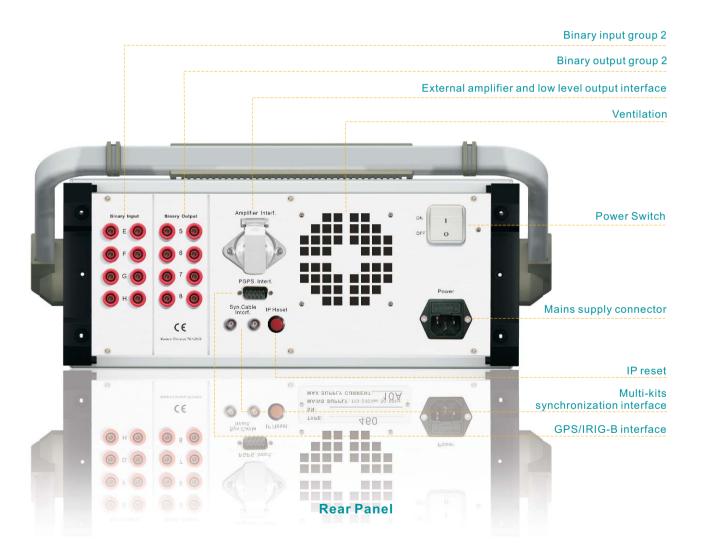
GRD150

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

P643

P645

Do you want to know a new friend? Here is PW460, Your good assistant on relay testing.







2F,4Cell,Tower C,In.Do Manslon, No.48A Zhichun Road,Haidian District Beijing,PR China(100098) Tel:+86 (10) 5873 1010 Fax:+86 (10) 5873 1816 www.relaytest.com info@relaytest.com support@relaytest.com







PONOVO POWER CO., LTD. www.relaytest.com



PW460 Relay tester

Universal testing system PW460 (6*15A, 4*300V) can test all types of protective relays, including modern IEC61850 based relays. Other test works, such as transducer, energy meter, indication meter, etc., can also be done easily. It's the ideal test device for all power utilities, power plants, relay manufactures, panel manufactures, research institutes, Universalities, testing companies, etc.

Product Features

- In-built monitoring and recording
- Large output power
- High accuracy
- Support GOOSE based test
- Multi-kits synchronization interface
- Current booster interface for testing high burden relay

