



POM2-6143

Protective Relay Test Set



Specifications

Voltage generators

Setting range

4-phase ac(L-N) 4×0~300V

1-phase ac(L-L) 1×0~600V

dc (L-N) 4×±0~300V

dc (L-L) 1×±0~600V

Power

4-phase ac(L-N) 4×75VA typ., at 300V;
4×50VA guar., at 300V

3-phase ac(L-N) 3×100VA typ., at 300V;
3×85VA guar., at 300V

1-phase ac(L-L) 1× 200VA typ., at 600V;
1× 170VA guar., at 600V

dc (L-N) 4×100W at 300 V

Accuracy error < 0.05 % rd.+0.02 % rg. guar.,
at 0~300 V
< 0.02 % rd.+0.01 % rg. typ.,
at 0~300 V

Ranges 300V

Resolution 10mV

Distortion < 0.05 % typ., (< 0.1 % guar.)

Current generators

Setting range

6-phase ac(L-N) 6×0~15A

3-phase ac(2L-N) 3×0~30A

1-phase ac(3L-3L) 1×0~30A (10A/phase)

1-phase ac(6L-N) 1×0~90A

dc (L-N) 6×±0~10A

dc (6L-N) 1×±0~60A

Power

6-phase ac(L-N) 6×105VA at 15A

3-phase ac(2L-N) 3×210VA at 30A

1-phase ac(3L-3L) 1×420VA at 30A

dc(L-N) 6×100W at 10A

dc(6L-N) 600W at 60A

Max compliance voltage(L-N)(L-L)
10Vpk/20Vpk

Accuracy error < 0.05 % rd.+0.02 % rg. guar.,
at 0~15A
< 0.02 % rd.+0.01 % rg. typ.,
at 0~15A

Ranges 15A or 30A

Resolution 1mA

Distortion < 0.05 % typ.,
(< 0.1 % guar.)

General

Frequency

Sine signal DC, 0.001Hz~1000Hz

Transient signal DC ~10.0kHz

Accuracy ±0.3ppm

Resolution 0.001Hz

Phase

Angle range -360°~+360°

Accuracy <0.05° typ., <0.1° guar.
at 50/60Hz

Resolution ±0.001°

Binary inputs

Number	8
Input characteristics	0~400Vdc/ac (peak) with adjustable threshold or potential free
Time resolution	50μs
Max. measuring time	Infinite
Debounce/Deglitch time	0~25ms
Counting function	< 3kHz at pulse width>150μs

Binary outputs, relay

Number	4 (1-4)
Type	Potential free relay contacts, software controlled
Break capacity ac	Vmax: 300Vac /Imax: 8A /Pmax: 2000VA
Break capacity dc	Vmax: 300Vdc /Imax:8A /Pmax: 150W

Binary outputs, semiconductor

Number	4 (5-8)
Type	semiconductor
Break capacity	Vmax: 300Vdc /Imax:0.5A /Pmax: 150W
Update rate	100μs
Imax	0.5A

Auxiliary dc supply

Voltage range	0~300V
Power	88W at 110V, 110W at 220V, 100W at 300V
Accuracy	error < 0.1 % rg. typ. (<0.5 % rg. guar.)

DC voltage measuring inputs

Measuring range	0~±10V
Accuracy	error <0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	100KΩ

DC current measuring inputs

Measuring range	0~±20mA
Accuracy	error<0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	50Ω

Low level outputs

Setting range	12×0~10Vpk
Max. output current	1mA
Accuracy	error< 0.025 % typ. < 0.07 % guar. at 1~10Vpk
Resolution	250μV
Distortion(THD+N)	< 0.05 % typ. (< 0.1 % guar.)
Connection	14 pin combination socket

Power supply

Nominal input voltage	110~240Vac
Permissible input voltage	90~260Vac
Nominal frequency	50/60Hz
Permissible frequency	45~65Hz

Environmental conditions

Operation temperature	0~+50°C
Storage temperature	-25~+70°C
Relative humidity	5~95% non-condensing
EMC(E&I)	EN/IEC 61326-1
Safety	EN/IEC 61010-1/1-12/2-030 EN/IEC 60255-25/27
Others	FCC Part 15: Sub B ECS-001:2006 LVD EU ZEK 01.4 -08/11/11

Others

PC connection	Ethernet,10M/100M
Low level outputs interface (Optional)	Circular connector
GPS/IRIG-B interface	Circular connector
IEC61850 Goose	Ethernet interface (Optional)
Ground Socket(earth)	4mm banana socket
Weight	16kg
Dimensions (W x H x D)	390mm ×287mm×214mm