## 1PHASE PHANTOM LOADING KIT

## Technical Specification:

| Type | : Continuously Variable Type |
| :---: | :---: |
| Model No. | : SR-VPF-320/10-1P |
| Input | $: 415 \mathrm{~V}$ AC $\pm 10 \%, 50 \mathrm{~Hz}, 3 \mathrm{P} 4 \mathrm{~W}$ or 3P 3W |
| Capacity | : 150VA in Total |
| Application | : To test and calibrate Single Phase Active, Reactive, and Apparent Power Energy Meter, Voltmeter, Ammeter, PF Meter. |

Salient Feature : 1. Variable 1Phase Output Voltage ( 0 - 320V AC, P-N ).
2. Variable 1Phase Output Current ( $0-10.0 \mathrm{~A} A C$ ).
3. Variable Phase Angle $\left(0^{\circ}-360^{\circ}\right)$.
4. Voltage Selection (110V AC / 220VAC(P-N) with Off)
5. Current Selection ( 1A AC /10A AC per Phase with Off)
6. Current Forward / Reverse Selection

## Voltage Output:

Voltage Range : 0-320V AC (P-N)
Range Selection : 110V / 220V / Off
110V Range : 0-150V AC
220V Range : 0-320V AC
Burden :100VA
Volt Adjustment : By a manual Variac

## Current Output:

Current Range :0-10.0A AC
Range Selection :1.0A / 10.0A /Off
1.0A Range $\quad: 0-1.5 \mathrm{~A} \mathrm{AC}$
5.0A Range : 0-10.0A AC

Burden :50VA
Amp Adjustment : By a manual Variac

## Phase Angle :

Phase Angle : 2 Nos. of Selector Switches is provided to change Phase Angle as follows.

1. Coarse Selection ( $A, B, C, D, E, F)$ : Using this Switch, Phase Angle ranges $A=0^{\circ}-60^{\circ}, Y=60^{\circ}-120^{\circ}$, $C=120^{\circ}-180^{\circ}, D=180^{\circ}-240^{\circ}, E=240^{\circ}-300^{\circ}$, $\mathrm{F}=300^{\circ}-360^{\circ}$ are selectable.
2. Fine Selection $(X, Y)$ : Using this Switch, Phase Angles will be selected in 4 ranges within the range selected by Coarse Selection Switch. For example, if $A=0^{\circ}-60^{\circ}$ is selected by Coarse Selection, by Fine Selection $X=0^{\circ}-30^{\circ}, Y=30^{\circ}-60^{\circ}$ ranges will be selected.
Phase Angle will be continuously adjustable by a Manual Variac for $30^{\circ}$ in the range selected by Fine Selector Switch.

## Phase Angle Selection Table:

| Fine | X | Y |
| :---: | :---: | :---: |
| Coarse |  |  |
| $A=0^{\circ}-60^{\circ}$ | $0^{0}-30^{0}$ | $0^{0}-60^{0}$ |
| $B=60^{\circ}-120^{\circ}$ | $60^{\circ}-90^{\circ}$ | $90^{\circ}-120^{\circ}$ |
| $\mathrm{C}=120^{\circ}-180^{\circ}$ | $120^{\circ}-150^{\circ}$ | $150^{\circ}-180^{\circ}$ |
| $\mathrm{D}=180^{\circ}-240^{\circ}$ | $180^{\circ}-210^{\circ}$ | $210^{\circ}-240^{\circ}$ |
| $E=240^{\circ}-300^{\circ}$ | $240^{\circ}-270^{\circ}$ | $270^{\circ}-300^{\circ}$ |
| $\mathrm{F}=300^{\circ}-360^{\circ}$ | $300^{\circ}-330^{\circ}$ | $330^{\circ}-360^{\circ}$ |

## Power Factor :

Range : Measurement of Power Factor range will be -ZPF to Unity to +ZPF

Forward / Reverse : Forward / Reverse selection Switch is provided for Output Currents.

| Protection | : Glass Fuse is provided for Input Power, Voltage Outputs and Current Outputs. |
| :---: | :---: |
| Meter | : 1 No. Multi Function Meter is provided for the indications of Voltage, Current, Power Factor and Phase Angle. |
| Terminals | : For 1P Voltage Output R, N terminals are provided. For 1P Current Output R1-R2 terminals are provided. |
| Input Cable | : Suitable 3 Core ( 2 mts ) input power cable of suitable size will be provided. |
| Output Cable | : Not in our scope of suppl |
| Enclosure | : Two types of enclosures will be provided. |
|  | 1. Table Top Model <br> 2. Portable Type (Box Type) |
|  | Customer should mention the type while ordering. |
| Test Certificate | : In-house Test Certificate will be provided along with Kit. |
| Guarantee | : Guarantee Certificate for 12 Months from the date of Supply will be provided along with Kit. |
| Manual | : Detailed instruction manual will be supplied along with Kit. |
| Spares | : One set of spare fuses will be supplied along with Kit. |

