# POWER TRANSDUCER

# 2 PHASE VOLTAGE TRANSDUCER

## MODEL & SUFFIX CODE SELECTION

MODEL **SW-2V** □ □ □

■ INPUT

| | |
|---|---|
| 1 | AC 0 – 150V |
| 2 | AC 0 – 300V |
| 3 | AC 0 – 500V |
| O | Others |

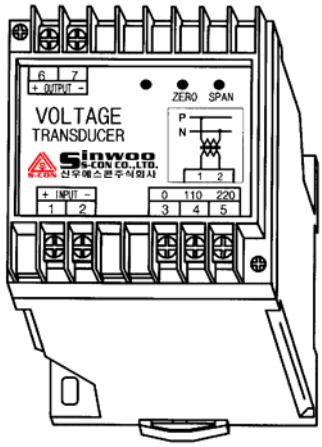
■ OUTPUT

| | |
|---|---|
| A | DC 4-20mA |
| B | DC 0-1mA |
| C | DC 0-20mA |
| D | DC 0-10mA |
| E | DC 1-5mA |
| O | Others |

| | |
|---|---|
| 1 | DC 0-10mV |
| 2 | DC 0-100mV |
| 3 | DC 0-1V |
| 4 | DC 0-10V |
| 5 | DC 0-5V |
| 6 | DC 1–5V |
| O | Others |

■ MODE

| | |
|---|---|
| A | Average |
| R | R.M.S |




The PT transducer Model SW-2V converts afternating Voltage form a PT into a DC output .
The input is sensed in R.M.S
* No load adjustments requrired

## ORDERING INFORMATION

Specify code number and variables
* **Code number** : SW-2V-input/output/mode
**ex** : SW-2V-2AR

* **special output range** :
A = -10~20mA
V = -10~12V

## GENERAL SPECIFICATIONS

**Construction** : DIN housings Terminal access on front face
**Housing materiel** : plastic(black)
**Wiring** : 3.0M screw terminals
**Isolation** : AC input/DC output/power
**Adjustments** : zero and span ±5%
Over-range output = 0~120%

## PERFORMANCE

**Accuracy** : 0.1% or 0.25%
**Temp.coefficient** : 0.03%/C
**Insulation resistance** : 100Mohm or more with 500V DC
**Response time** : 0.2seconds or less(0-90%)
**Line Voltage effect** : 0.1% with 10% change
**Ripple** : 0.25% p-p max. (100/120Hz)
**Dielectric strength** : 2000V AC 1minute
input/output/power
**Surge withstand Voltage** : 1.2/50μsec, ±5KV
(INPUT to OUTPUT to GROUND)

## INSTALLATION

**Operating temperature** : -5 to +55C
**Operating humidity** : 20-80%RH(non-condensing)
**Mounting** : Wall or DIN rail
**Power supply** : AC 110V or 220V (-15/+10%)
50/60Hz,2VA
**Size** : 75(W) X 75(H) X 113(D) mm
**Weight** :

## INPUT & OUTPUT

■ INPUT
**input** : AC 0~150V or AC 0~300V or AC 0~500V 3PHASE
**Operational range** : 0~120%
**Permissible over range** : 1000% for 5 seconds
200% for 20 seconds
120% continuously
**Frequency** : 50/60Hz
**Input loss** : 0.5VA or less

■ **OUTPUT**

**DC Current** : 0-20mA DC
**Minimum span** : 1mA
**zero bias** : max. 1.5 Times of span

**LOAD resistance**

| OUTPUT | LOAD RESISTANCE | IMPEDANCE |
|---|---|---|
| 4-20mA | 0-600ohm | 5Mohm or more |
| 0-20mA | 0-600ohm | |
| 0-16mA | 0-750ohm | |
| 0-10mA | 0-1200ohm | |
| 0-1mA | 0-12kohm | |
| 0-5mA | 0-2400ohm | |

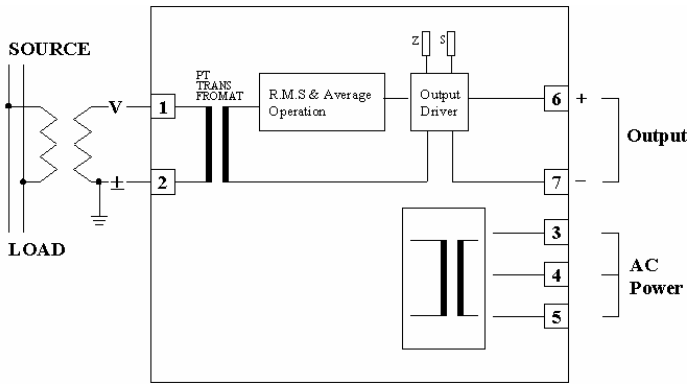
**DC Voltage** : 0-12V DC
**Minimum span** : 5mV
**zero bias** : max. 1.5 Times of span

**LOAD resistance**

| OUTPUT | LOAD RESISTANCE | IMPEDANCE |
|---|---|---|
| 0-10mV | 10kohm or more | 10ohm |
| 0-100mV | 100kohm or more | 100ohm |
| 0-1V | 1kohm or more | 1ohm or less |
| 0-10V | 10kohm or more | |
| 0-5V<br>1-5V | 5kohm or more | |

* for other ranges within 0-12V, use equation
R = E/I where : R = load resistance (ohm)
E = full-scale output (V)
I = 1 mA

## *CONNECTION DIAGRAM*




## *DEMENSION & INSTRUCTIONS*