

3 PHASE VOLTAGE TRANSDUCER

POWER TRANSDUCER

MODEL & SUFFIX CODE SELECTION

MODEL **SW-3V**

INPUT

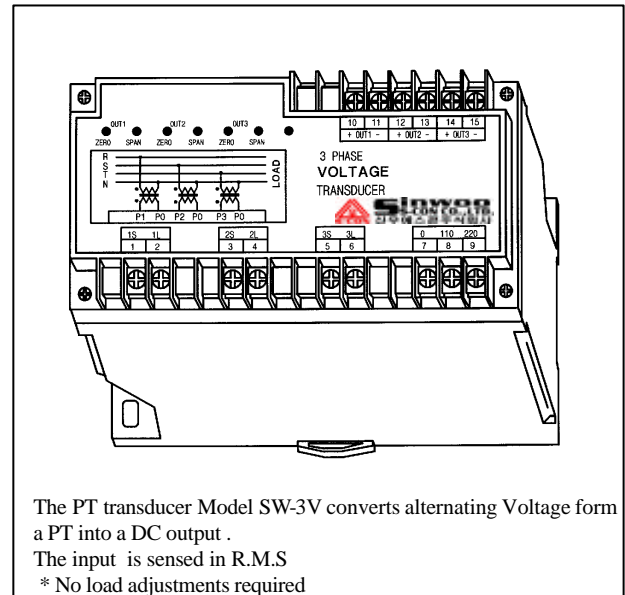
| | |
|---|-------------|
| 1 | AC 0 - 150V |
| 2 | AC 0 - 300V |
| 3 | AC 0 - 500V |
| O | Others |

OUTPUT

| | | | |
|---|-----------|---|------------|
| A | DC 4-20mA | 1 | DC 0-10mV |
| B | DC 0-1mA | 2 | DC 0-100mV |
| C | DC 0-20mA | 3 | DC 0-1V |
| D | DC 0-10mA | 4 | DC 0-10V |
| E | DC 1-5mA | 5 | DC 0-5V |
| O | Others | 6 | DC 1.5V |
| | | O | Others |

MODE

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



The PT transducer Model SW-3V converts alternating Voltage form a PT into a DC output .
The input is sensed in R.M.S
* No load adjustments required

ORDERING INFORMATION

Specify code number and variables
* Code number : SW-3V-input/output/mode
ex : SW -3V -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 $\pm 5\%$
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 : 1.2/50 μ sec, ± 5 KV
(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) * 150(h) * 113(d)
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

POWER TRANSDUCER SERIES

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

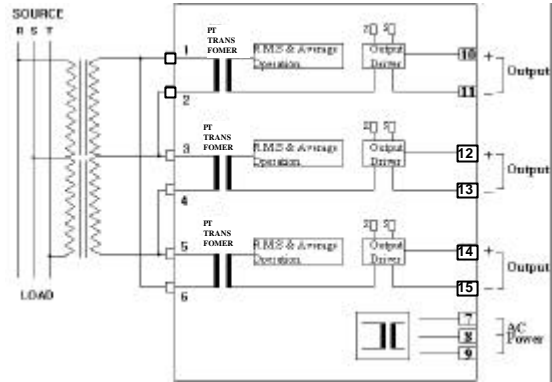
zero bias : max. 1.5 Times of span

LOAD resistance

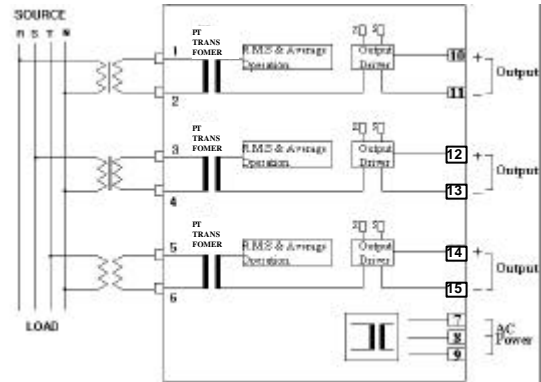
| OUTPUT | LOAD RESISTANCE | IMPEDANCE |
|---------|-----------------|--------------|
| 0-10mV | 10kohm or more | 10ohm |
| 0-100mV | 100kohm or more | 100ohm |
| 0-1V | 1kohm or more | 1ohm or less |
| 0-10V | 10kohm or more | |
| 0-5V | 5kohm or more | |
| 1-5V | | |

* 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



3p3w



3p4w

DEMENSION & INSTRUCTIONS

