

POWER FACTOR TRANSDUCER

POWER TRANSDUCER

MODEL & SUFFIX CODE SELECTION

MODEL **SW-PF** — [] [] [] []

INPUT

phase/wire

1	1 P 2 W
2	1 P 3 W
3	3 P 3 W
4	3 P 4 W

voltage/ampere

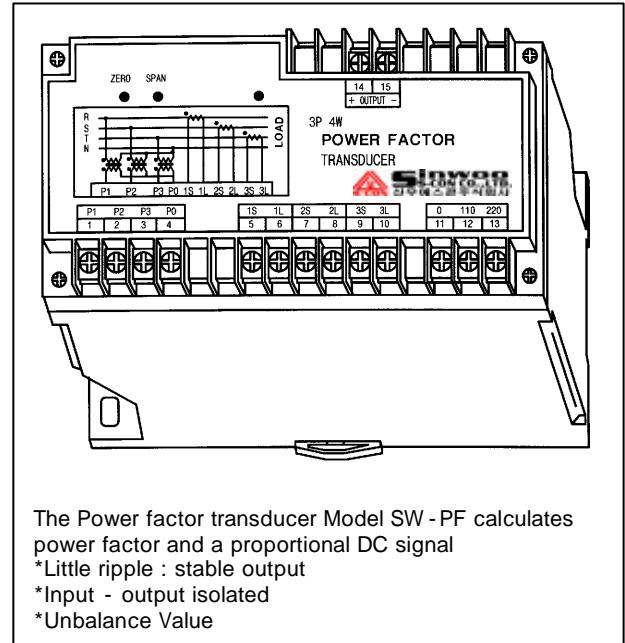
A	110V/5A
B	220V/5A
C	190/√3V/5A
D	380/√3V /5A

Analog output

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

Output polarity

P	0.5(LEAD) to 1to 0.5 (lag)
N	0.5(lag) to 1to 0.5 (LEAD)



The Power factor transducer Model SW - PF calculates power factor and a proportional DC signal
 *Little ripple : stable output
 *Input - output isolated
 *Unbalance Value

ORDERING INFORMATION

Specify code number and variables

* Code number : SW-PF-input/output/mode
 ex : SW - PF - 4AAP

* 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 : 2 % at input 1 - 0.866; balanced load
 4 % at input 0.866 - 0.5; balanced load
 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 : 0.5% 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) * 150(h) * 113(d)
 Weight :

INPUT & OUTPUT

INPUT

* Input range : (0.5)LEAD - 1 - 0.5 (log)
 # Voltage Size (PT Size)
 Operational range : 85~110%
 Permissible over range : 150% 10 seconds
 120% continuously
 Input loss : 0.5VA
 # Current Size (CT Size)
 Operational range : 10~120%
 Permissible over range : 1000% 3 seconds
 200% 15 seconds
 120% continuously
 Input loss : 0.5VA

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

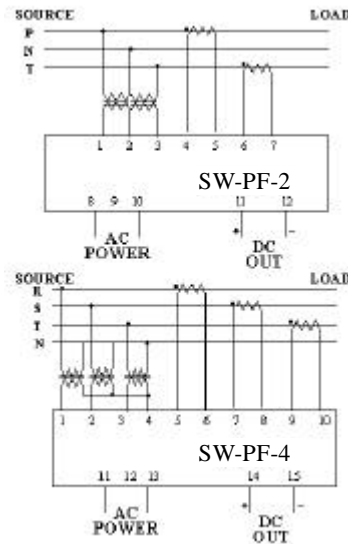
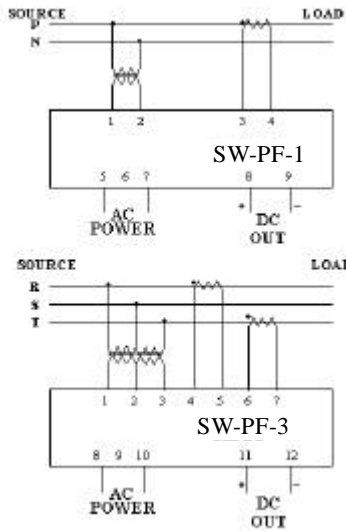
Minimum span : 5mV

zero bias : max. 1.5 times of span

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



DEMENSION & INSTRUCTIONS

