HD HYUNDAI POWER SYSTEM

HD POWER TRANSDUCER SERIES

POWER FACTOR TRANSDUCER

MODEL HDPF –

MODEL & SUFFIX CODE SELECTION

MODEL **HDPF** □□□□

■ 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
B	DC 0-1mA
C	DC 0-10mA
D	DC 0-20mA
E	DC 1-5mA
O	Spec Order

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	Spec Oredr

■ 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 HDPF calculates power factor and a proportional DC signal
*Little ripple : stable output
*Input - output isolated
*Unvalance Value

ORDERING INFORMATION

Specify code number and variables

* **Code number** : HDPF-input/output/mode
  ex : HDPF-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 : 0.4sec(400ms)
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 : W75 H150 D113mm
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

■OUTPUT

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

LOAD resistance

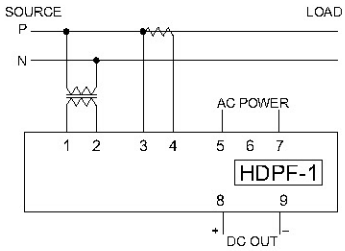
OUTPUT	LOAD RESISTANCE	IMPEDANCE
4-20mA	0-600 Ω	5 MΩ or more
0-20mA	0-600 Ω	
0-16mA	0-750 Ω	
0-10mA	0-1200 Ω	
0-1mA	0-12 kΩ	
0-5mA	0-2400 Ω	

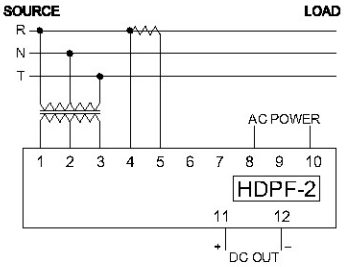
DC Voltage : 0-12V DC
Minimum span : 5mV
zero bias : max. 1.5 tions of span

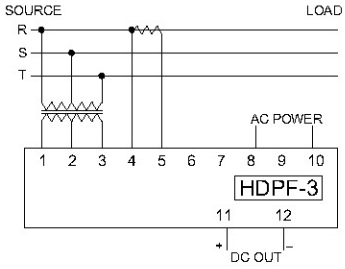
OUTPUT	LOAD RESISTANCE	IMPEDANCE
0-10mV	10 kΩ or more	10 Ω
0-100mV	100 kΩ or more	100 Ω
0-1V	1 kΩ or more	1 Ω or less
0-10V	10 kΩ or more	
0-5V 1-5V	5 kΩ or more	

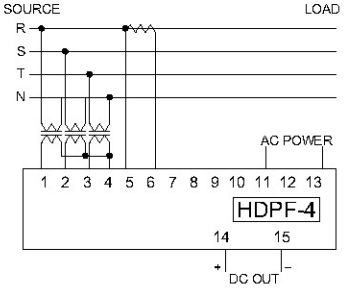
* for other ranges within 0-12V, use equation
R = E/I where : R = load resistance (Ω)
E = full-scale output (V)
I = 1 mA

CONNECTION DIAGRAM









DIMENSION & INSTRUCTIONS