

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
 * Voltage Side (PT side)
 Operational range : 0-110%
 Permissible over range : 150% for 10 seconds
 120% continuously
 * Current Side (CT side)
 Operational range : 0-120%
 Permissible over range : 1000% for 5 seconds
 150% for 10 seconds
 120% continuously
 Frequency : 60 or 50Hz

■ INPUT RANGE

1-PHASE/2-WIRE

MODEL CODE	INPUT	STANDARD RANGE			BURDEN (VA)	
		OPEN-collector	Relay-contact	Voltage-pulse	VOLTAGE	CURRENT
A	110V 1A	1Count /Wh	1Count /Wh	10Count /Wh	0,22VA	0,5VA
	110V 5A					
B	220V 1A				0,44VA	0,5VA
	220V 5A					

1-PHASE/3-WIRE

MODEL CODE	INPUT	STANDARD RANGE			VOLTAGE	CURRENT
		Open-collector	Relay-contact	Voltage-pulse		
A	110V 1A	1Count /Wh	1Count /Wh	10Count /Wh	0,22VA /phase	0,5VA /phase
	110V 5A					

3-PHASE/3-WIRE

MODEL CODE	INPUT	STANDARD RANGE			BURDEN (VA)	
		Open-collector	Relay-contact	Voltage-pulse	VOLTAGE	CURRENT
A	110V 1A	1Count /Wh	1Count /Wh	10Count /Wh	0,22VA /phase	0,5VA /phase
	110V 5A					
B	220V 1A				0,44VA /phase	0,5VA /phase
	220V 5A					
C	110V 1A	0,22VA /phase	0,5VA /phase			
	110V 5A					

3-PHASE/4-WIRE

MODEL CODE	INPUT	STANDARD RANGE			VOLTAGE	CURRENT
		Open-collector	Relay-contact	Voltage-pulse		
A	190/√3V/ 1A	1Count /Wh	1Count /Wh	10Count /Wh	0,22VA /phase	0,5VA /phase
	190/√3V/ 5A					
B	380/√3V/ 1A				0,44VA /phase	0,5VA /phase
	380/√3V/ 5A					
C	190/√3V/ 1A	0,22VA /phase	0,5VA /phase			
	190/√3V/ 5A					

■ HOW TO DETERMINE PULSE

Calibration Range [W] = $\frac{\text{Measuring Wattage}}{\text{PT ratio} \times \text{CT ratio}}$

Check that the required calibration range is within the available range in the table

WATTHOUR PULSE RANGE

• pulse ratio = Calibration WATT range / 1hour

[example] 3-phase / 3-wire 110V . 5A . 1000W
 pulse range = 1000 pulse / 1hour

WATTHOUR PULSE RATIO RANGE

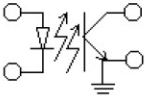
1 pulse ratio = PT ratio x CT ratio

[example] 3-phase / 3-wire 110V . 5A
 PT : 3300V/110V CT : 250A/5A

1 pulse ratio = 30 (PT ratio) x 50 (CT ratio) x Wh
 = 1500Wh

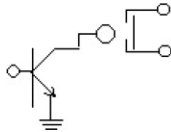
*** MODE**

A. Open collector



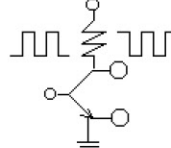
Min 1 V DC 100mA
 Max 20V DC 100mA

B. relay contact



Relay Capacity
 100V, 0.1 A

C. Voltage pulse

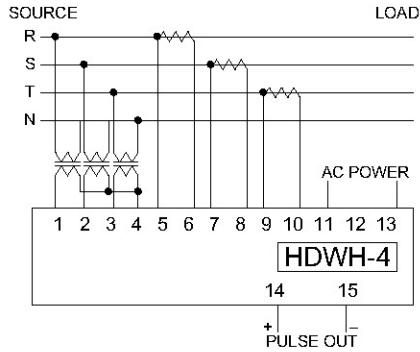
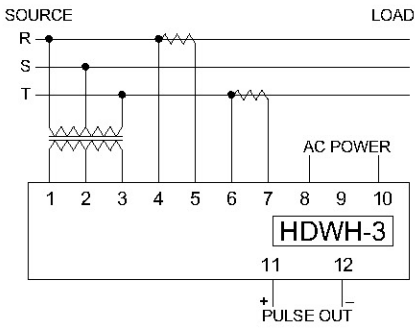
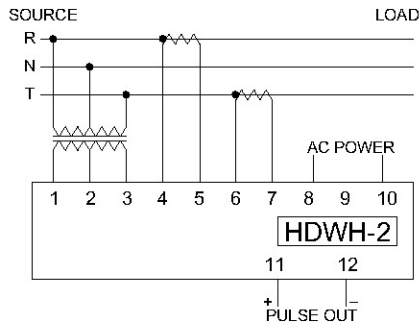
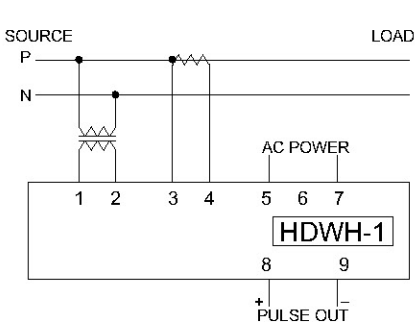


High +15V 5mA
 Low 0V

* ON duration : 250 msec. [min, 50msec., max. wattinput range/1hour x 1/2 sec

* Frequency range : 0 - 2,777Hz

CONNECTION DIAGRAM



DEMENSION & INSTRUCTIONS

