

**Ideal for Process Monitoring**

**Two Digital Displays**

- Instantaneous Power-Kilowatts  
Bright 3 digit LED Display
- Accumulated Energy - Kilowatt Hours Minutes, Seconds  
Bright 8 digit LED Display

Pulsed KWH Output for Computer or Controller.

**DISPLAYS INSTANTANEOUS POWER**

- Shows Machine Load

**ZERO OUT IDLE LOAD WITH EXTERNAL POT**

- Monitor KW & KWH for the Net Load Only

**ENERGY COUNTER**

- Can be Stopped with External Signal

**KWH DISPLAY RESET**

- With Blinking LED Warning

**ENERGY COUNTER**

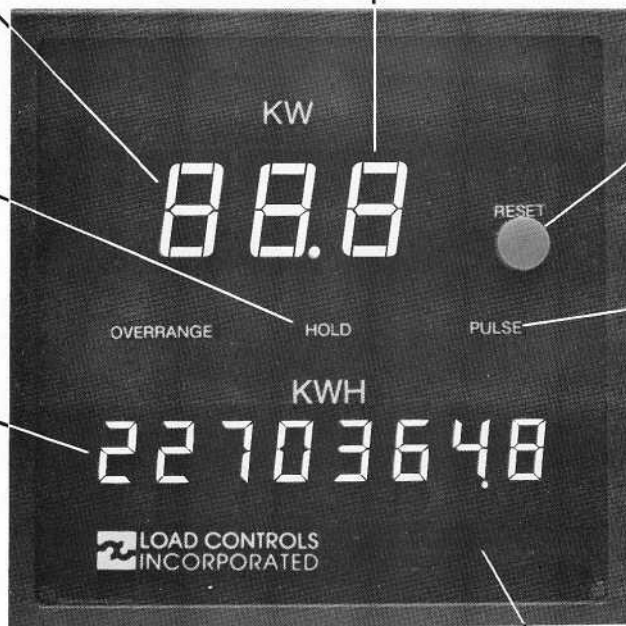
- KW Hours
- KW Minutes
- KW Seconds

**PULSED OUTPUT**

- Send to Computer or Controller

**INPUT POWER**

- 120V/240V



**EACH PULSE CAN BE**

- 1 KW Hour, Minute, Second

**STANDARD 1/4 DIN MOUNTING**

- 96mm x 96mm x 141 mm
- Mounting Hole 91 mm x 91 mm

**BUILT-IN MEMORY BACKUP**

- 12 Hours at 25°C

POWER CELL  
SENSES MOTOR POWER

KWH-2 METER DISPLAYS  
• Power • Energy

FOR COMPUTER OR CONTROLLER



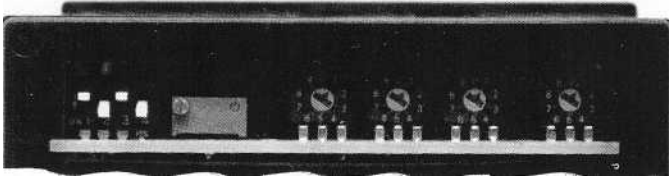
## FULL SCALE KW

### DIP SWITCH 2

-ON Decimal XX.X  
(For Full Scale Less Than 100KW)

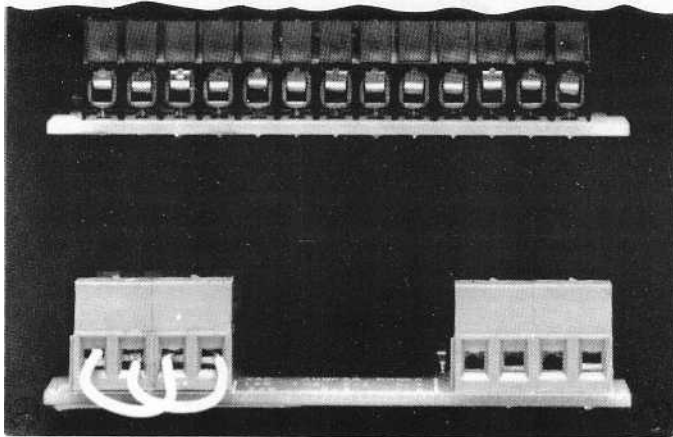
### DIP SWITCH 4

-Turn ON to adjust full scale pot  
-Turn OFF for normal operation



### INPUT TERMINAL STRIP

- 1 Remote Reset +(7-24VDC)
- 2 Remote Reset -(7-24VDC)
- 3 Remote Hold -(7-24VDC)
- 4 Remote Hold +(7-24VDC)
- 5 No Connection
- 6 Offset Pot CW 10Kohm
- 7 Offset Pot Wiper
- 8 Offset Pot Common
- 9 10 Volt Input -
- 10 10 Volt Input +
- 11 No Connection
- 12 4-20mA Input +
- 13 4-20mA Input -



- 1 2 3 4
  - 5 6 7 8
- AC POWER**

Terminals 1 & 4  
120V Jump 1-3; 2-4  
240V Jump 2-3

- No Connection
- No Connection
- Pulsed Output
- Pulsed Output

### PULSED OUTPUT

Reed Relay  
10VA Maximum  
100 Volts Maximum  
.1 Second Pulse

## FULL SCALE CAPACITY-460 VOLT NETWORK

Model	Current Network	Full Scale
PH-3A-HG	4.2 AMP	3.3 KW
PH-3A	10(9.54) AMP	7.6 KW
PH-3A	15(13.34) AMP	10.6 KW
PH-3A	20 AMP	15.9 KW
PH-3A	30 AMP	23.9 KW
PH-3A	40 AMP	31.9 KW
PH-3A	50 AMP	39.8 KW
PH-3A	60 AMP	47.8 KW
PH-3A	70 AMP	55.8 KW
PH-3A	80 AMP	63.7 KW
PH-3A	90 AMP	71.7 KW
PH-3A	100 AMP	79.7 KW
PH-3A-350	140 AMP	111.5 KW
PH-3A-350	175 AMP	139.4 KW
PH-3A-350	210 AMP	167.3 KW
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PH-1000	100 (95.4) AMP	76.0 KW
PH-1000	200 AMP	159.4 KW
PH-1000	300 AMP	239.0 KW
PH-1000	400 AMP	318.7 KW
PH-1000	500 AMP	398.4 KW
PH-1000	600 AMP	478.0 KW
PH-1000	700 AMP	557.7 KW
PH-1000	800 AMP	637.4 KW
PH-1000	900 AMP	717.1 KW
PH-1000	1000 AMP	796.7 KW

### MULTIPLIERS

For Voltage Networks Other Than 460 Volt,  
Multiply 460V Full Scale By:

230V=.5                      415V=.9  
380V=.83                    580V=1.26

### KWH-2 SET UP

Find the Full Scale Capacity of your Power Cell from the Table

#### Adjust Instantaneous Power Display

- Dip Switch 1 OFF
  - 2 ON Decimal XX.X (For Full Scale Less than 100KW)
  - 3 OFF
  - 4 Turn ON and Adjust Display to Read your Full Scale Capacity using the 20 Turn Pot. Turn OFF for normal Operation.

#### Adjust KWH Display with 4 Rotary Switches

XXX.X

### FUNCTIONS

- Reset** - KWH Display can be Reset 2 Ways.
  - On Front Panel - Hold Down Reset until warning light stops blinking.
  - Remote - Voltage (7-24VDC) input on Terminals 1 (+) and 2(-). Reset is instantaneous.
- Hold** - KWH Display can be Held.
  - Voltage (7-24VDC) input on Terminals 4(+) and 3(-).
- Offset** - The Idle Load (Tare) can be zeroed out with an external 10Kohm Pot.

### ADVANCED FUNCTIONS

If smaller energy units are desired, the unit can be set to accumulate KW minutes (1/60 KWH) or KW seconds (1/3600 KWH).

1. Remove Rear Cover.
2. On Vertical Circuit Board find Upper Dip Switch
  - Turn OFF SW 3 (KWH)
  - Turn ON SW 2 for KW Minutes
  - Turn ON SW 1 for KW Seconds
  - (only 1 switch ON at a time).