

PH-3A POWER CELL

- Fast Response Power Monitor



PH-1000 POWER CELL

- Large Capacity for Big Loads

- Power cells are stand alone transducers
- Analog output proportional to power (horsepower or watts)
- Self-contained. No current or voltage transformers
- Versatile. Work on both fixed and variable frequency power supplies



ALL PRODUCTS
MADE IN USA

FAST RESPONSE PH-3A POWER CELL



- Ideal for machine tool applications
- Monitor fast load changes

PH-1000 POWER CELL FOR LARGE LOADS



- Up to 1,000HP
- 1 3/4" windows

CHANGING CAPACITY OF THE POWER CELL

The capacity for each of the Hall Sensors is set with 8 pin resistor networks. These voltage and current networks provide a full-scale calibration point. These are easily changed in the field. This lets you match the Power Cell to the load. Cost: \$10



In the three phase Power Cell there are:

- Three current networks
- One voltage network
- One function network for the 0-5 Volt and 0-10 Volt outputs
- An additional circuit board for the 4-20 MA and the 0-1 MA outputs

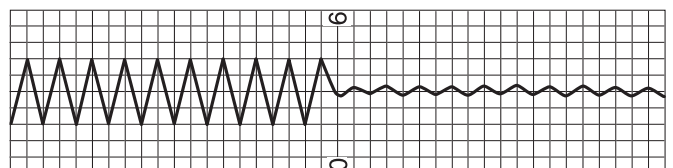
OPTIONAL RESPONSE ADJUSTMENT

The Power Cell is designed to have very fast response. In some cases, like agitator and mixer applications, you will probably want to smooth the signal using the optional response adjustment on the Power Cell.

An analog load meter (since it has a slow response) also does a nice job of averaging the signal.

NORMAL RESPONSE

SLOW RESPONSE
(Average Power)



FOR THREE PHASE POWER - FIXED OR VARIABLE FREQUENCY

PH-3A



Three Phase Power to 150HP

PH-1000



Three Phase Power to 1000HP

**Full Scale Capacity
460 Volt Network**

Model	Full Scale
PH-3A-HHG	2HP
PH-3A-HG	4.5HP
PH-3A-10	10HP
PH-3A-15	14HP
PH-3A-20	21HP
PH-3A-30	32HP
PH-3A-40	43HP
PH-3A-50	53HP
PH-3A-60	64HP
PH-3A-70	75HP
PH-3A-80	85HP
PH-3A-90	96HP
PH-3A-100	107HP
PH-3A-350-140	149HP

PH-1000-100	102HP
PH-1000-200	213HP
PH-1000-300	320HP
PH-1000-400	427HP
PH-1000-500	533HP
PH-1000-600	640HP
PH-1000-700	747HP
PH-1000-800	853HP
PH-1000-900	960HP
PH-1000-1000	1067HP

KW=(HP)(.746)

**For Voltage Networks Other than
460 Volt Multiply Full Scale HP by:**

115 Volts	.25
185 Volts	.4
230 Volts	.5
255 Volts	.55
380 Volts	.83
415 Volts	.9
580 Volts	1.26

For Small Loads

The capacity can be reduced by taking additional "turns" with the wire through each hole for each phase.

Example: A 10HP unit is reduced to 5HP by taking two turns through each hole. It is reduced to 3.33HP with three turns, etc.

Outputs Available

0-1 MA, 4-20 MA, 0-5 Volts, 0-10 Volts
The output is powered by the Power Cell

To Order: Specify Model Number, (Voltage Network if not 460 Volt) and Output

NOTE: The Current Networks do not limit the current. They provide the Full Scale Power calibration point (HP or KW). The Power Cell is not damaged by overloads.

SPECIFICATIONS FOR ALL POWER CELLS

- FREQUENCY**
 - DC to 1 KHz
- RESPONSE**
 - 15 Milliseconds (.015 seconds)
 - .060 seconds to 1 second with optional response adjustment
- ACCURACY/REPEATABILITY**
 - .5%
- IMPEDANCE**
 - For 10 Volt output: 2K ohm minimum connected impedance
 - For 4-20 MA output: 500 ohm maximum connected impedance
 - High compliance units available
- TEMPERATURE**
 - 55°C maximum

DIMENSIONS

PH-3A POWER CELLS	PH-1000 POWER CELLS	EXTERNAL TRANSFORMER (provided with each POWER CELL)
<p>4 1/2" (height) 1 1/4" (width) 9 1/8" (depth)</p> <p>Maximum conductor 3/4" with grommets removed Mounting: (2) #10 screws, 8 1/2" on center</p>	<p>5 1/4" (height) 2" (width) 13 3/8" (depth)</p> <p>Maximum conductor 1 3/4" Mounting: (4) 1/4" screws, 12 3/4" x 1 1/4" on centers Weight: 12 pounds</p>	<p>1 3/8" (height) 1 5/8" (width) 2 3/8" (depth)</p> <p>Mounting: (2) #10 screws, 2" on center</p>

Complete installation information at loadcontrols.com in Products section

