

### PAC2000 MICROPROCESSOR CONTROLLER

#### FEATURES

- Direct Digital Synthesized sine wave
- Vacuum Fluorescent display
- Front panel or remote control
- Measurement capability



#### MICROPROCESSOR CONTROLLER WITH MEASUREMENT CAPABILITY

Behlman's PAC 2000 microprocessor controller utilizes a Direct Digital Synthesizer to generate a precise sine wave to drive the power amplifiers. The PAC 2000 is available as either a (-1), single phase or (-3), three phase controller. The controller can set voltage, frequency, current limit, phase angle and output on/off. The controller can also make fundamental measurements on the output of the amplifier of volts, current, frequency, watts and power factor. The controller can be set manually via front panel push buttons and switches or communicate remotely using an RS-232 interface which is supplied with the unit.

#### SETTING CAPABILITY

<b>Voltage</b>	Adjustable (0 to Full Scale) VAC, L-N, 1-phase or 3-phase
<b>Frequency</b>	Adjustable from 45 to 500 Hz
<b>Current Limit</b>	Adjustable from 0.5 A to full current. Will disable the output when current limit is reached.
<b>Phase Angle</b>	Phase A is zero referenced. Phase B & C adjustable from 0 to 360 degrees.

#### MEASUREMENT and DISPLAY CAPABILITY

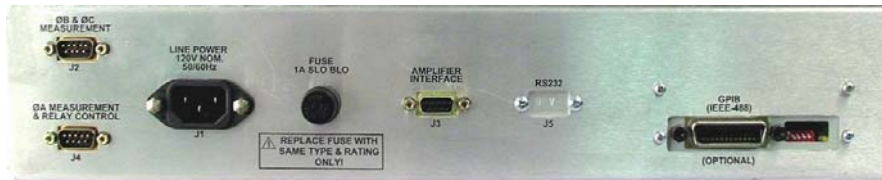
	<b>Resolution</b>	<b>Accuracy</b>
<b>Voltage RMS</b>	0.1 V	0.25% of FS +/- 0.1 V
<b>Current RMS</b>	0.1 A	0.5% of FS +/- 0.1 A
<b>Frequency</b>	0.1 Hz	0.01 Hz
<b>Phase Angle</b>	0.3 Degrees	0.3 Degrees
<b>Watts - Real Power</b>	1.0 W	3.0% of FS
<b>PF - Power Factor</b>	0.01	+/- .04 from 10% to full power

#### CONTROLS and INDICATORS

<b>Mode</b>	Set parameter: Volts, Freq, Current limit, Phase angle and Power Monitor
<b>Shift</b>	Used with MODE button to set adjustment resolution: (0.1, 1.0, 10.0, 100.0)
<b>Up</b>	Increment Up
<b>Down</b>	Increment Down
<b>Reset</b>	Reset microprocessor to default conditions
<b>Busy</b>	LED indicator for operation of: microprocessor, manual input commands, remote control activity
<b>Output</b>	Switch and LED indicator-Output On
<b>Local/Remote</b>	Switch-change from local (front panel) to remote control
<b>Fault</b>	Indicated on display: Over Voltage (O/V), Over Current (O/I), Over Temperature (O/T), Overload Latch (O/L), Constant Current (C/C), Current Limit (C/L)
<b>Fuse</b>	(1 A Slow Blow) on rear

**MECHANICAL & ENVIRONMENTAL**

<b>Display</b>	Vacuum Fluorescent, 2 lines X 40 characters
<b>Dimensions</b>	3.5”H X 17”W X 15”D, Rack Mount chassis
<b>Weight</b>	13 lbs.
<b>Temperature</b>	0° to 50° C
<b>Connections</b>	
<b>Input (Line Power)</b>	<b>J1-</b> IEC320-C20 receptacle
<b>Phase B &amp; C Meas.</b>	<b>J2-</b> 9 pin D connector
<b>Amplifier Interface</b>	<b>J3-</b> 9 pin D connector
<b>Phase A Meas.</b>	
<b>&amp; Relay control</b>	<b>J4-</b> 9 pin D connector
<b>RS232</b>	<b>J5-</b> 9 pin D connector
<b>IEEE-488</b>	<b>J6-</b> (with Option I)



**OPTIONS:**

*contact factory for additional options including custom input and output*

- I** IEEE-488 Interface
- USB** USB Interface
- ET** Ethernet Interface
- WF** “Wild Frequency” range of 350 to 880 Hz

**MODEL SELECTION GUIDE**

**PAC 2000-1 (single-phase) or -3 (three-phase) - Options**  
**Programmable controller, three-phase output, IEEE-488 Interface**



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