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

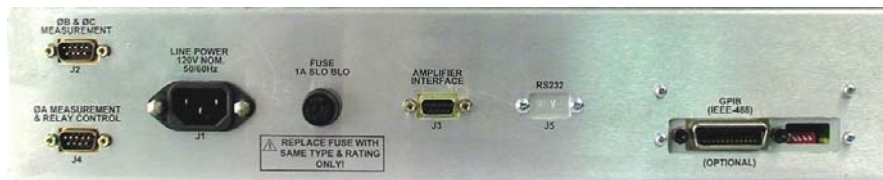|	
Voltage	Adjustable (0 to Full Scale) VAC, L-N, 1-phase or 3-phase
Frequency	Adjustable from 45 to 500 Hz
Current Limit	Adjustable from 0.5 A to full current. Will disable the output when current limit is reached.
Phase Angle	Phase A is zero referenced. Phase B & C adjustable from 0 to 360 degrees.

MEASUREMENT and DISPLAY CAPABILITY

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

CONTROLS and INDICATORS

Mode	Set parameter: Volts, Freq, Current limit, Phase angle and Power Monitor
Shift	Used with MODE button to set adjustment resolution: (0.1, 1.0, 10.0, 100.0)
Up	Increment Up
Down	Increment Down
Reset	Reset microprocessor to default conditions
Busy	LED indicator for operation of: microprocessor, manual input commands, remote control activity
Output	Switch and LED indicator-Output On
Local/Remote	Switch-change from local (front panel) to remote control
Fault	Indicated on display: Over Voltage (O/V), Over Current (0/I), Over Temperature (O/T), Overload Latch (O/L), Constant Current (C/C), Current Limit (C/L)
Fuse	(1 A Slow Blow) on rear

MECHANICAL & ENVIRONMENTAL

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