

PAC2000 MICROPROCESSOR CONTROLLER

Available with independent voltage amplitude control for phase A, B & C

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. *Option V3 can set independent voltages and measure voltage and current for phases A, B and C.*

SETTING CAPABILITY

Voltage	Adjustable (0 to Full Scale) VAC, L-N, 1-phase or 3-phase
-Option V3	Va, Vb & Vc set independently
Over Voltage	Set at factory. Will be the same for all three-phases.
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. <i>Current limit will be same for all three phases.</i>
Phase Angle	Phase A is zero reference, B & C adjustable from 0 to 360 degrees.

MEASUREMENT and DISPLAY CAPABILITY

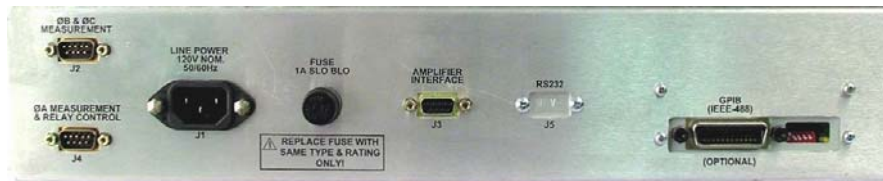
	Resolution	Accuracy
Voltage RMS	0.1 V	0.25% of FS +/- 0.1 V
Current RMS	0.1 A	0.5% of FS +/- 0.1 A
Frequency	0.1 Hz	0.01 Hz
Phase Angle	0.3 Degrees	0.3 Degrees
Watts - Real Power	1.0 W	3.0% of FS
PF - Power Factor	0.01	+/- .04 from 10% to full power

CONTROLS and INDICATORS

Mode	Set parameter: Volts, Freq, Current limit, Phase angle and Power Monitor. (Va, Vb & Vc for Option V3)
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 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
- WF** “Wild Frequency” range of 350 to 880 Hz
- V3** Set voltage for all three phase or phases A, B & C independently

MODEL SELECTION GUIDE Model: PAC2000-(No. of phases)-(Options)

Example: **PAC2000-3-I-V3**

Three-phase output
IEEE-488 Interface and ability to set Va, Vb & Vc independently



www.behlman.com

ORBIT POWER GROUP
Behlman Electronics

Headquarters:
80 Cabot Court, Hauppauge, NY 11788
631 435-0410 800 874-6727
Fax: 631 951-4341

2363 Teller Road, Suite 108
Newbury Park, CA 91320
805 375-7046 800 456-2006
Fax: 805 498-2147

sales@behlman.com