

### MAC2000 MANUAL CONTROLLER

#### FEATURES

- Direct Digital Synthesized sine wave
- Adjustable Volts & Current limit
- Fixed & adjustable frequency
- Three DMM displays
- Front panel or remote control



#### CONTROLLER WITH ADJUSTABLE VOLTS, FREQUENCY & CONSTANT CURRENT LIMIT

Behlman's MAC 2000 Manual Controller utilizes a Direct Digital Synthesizer to generate a precise sine wave to drive the power amplifiers. The MAC 2000 is available as either a (-1), single phase or (-3), three phase controller. The controller can set voltage, frequency, current limit, output on/off and correct for line-drop over distance. The controller can also make fundamental measurements on the output of the amplifier of volts, current and frequency and can be set manually via front panel controls or remotely using an analog (0-10 VDC) input.

#### SETTING CAPABILITY

- Voltage:** Adjustable (0 to Full Scale) VAC, L-N, 1-phase or 3-phase
- Frequency:** Three fixed frequencies of 50 Hz, 60 Hz and 400 Hz and adjustable frequency from 45 to 500 Hz
- Constant Current Limit:** Adjustable from 0.5 A to full current. Overload automatically causes voltage fold-back to provide constant current without distorting output waveform.

#### MEASUREMENT and DISPLAY CAPABILITY

	Resolution	Accuracy
Voltage RMS	1.0 V	0.25% of FS +/- 1 V
Current RMS	0.1 A	0.5% of FS +/- 0.1 A
Frequency	1.0 Hz	+/- 0.1 Hz

#### CONTROLS and INDICATORS

- Frequency select:** Four position switch for 50 Hz, 60 Hz, 400 Hz and variable frequency of 45 to 500 Hz
- Meter:** Three DMM's; Frequency, True RMS Amps and True RMS Volts
- Frequency adjust:** Ten-turn pot to adjust frequency
- Phase select switch:** Four position switch for Phase A, B, C, volts and amps, & CC; constant current select
- Constant current:** Recessed potentiometer and display, adjustable from 10% to full scale
- Voltage adjust:** Ten-turn pot to adjust voltage
- Indicators:** Overload Latch, Constant Current, Over Temp, Output On
- Output On/Off:** Pushbutton switch
- Line drop compensation:** Three recessed potentiometers for 10% adjustment of Phase A, B, C
- Local remote:** Slide switch to select front panel or remote control
- Reset** Reset to default condition

**MECHANICAL & ENVIRONMENTAL**

<b>Dimensions</b>	3.5”H X 17”W X 12”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>Remote Analog</b>	<b>J5-</b> 9 pin D connector( with Option A only)



**OPTIONS:**

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

- A** Remote Analog Interface
- WF** “Wild Frequency” range of 350 to 880 Hz

**MODEL SELECTION GUIDE**

**MAC 2000-1 (single-phase) or -3 (three-phase) - Options**



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