MicroMax Instruments

GPS300 Installation & Configuration Quick Reference Guide

Required Tools

- Voltmeter

Optional Tools

- Windows® Laptop PC
- USB to mini-USB cable
- Bullhorn® Tools configuration software

CAUTION: Do not connect the MicroMax GPS300 to primary power.

WARNING: Before beginning any wiring to the MicroMax GPS300, ensure that **power has been turned off at the rectifier**.

Installing the Equipment

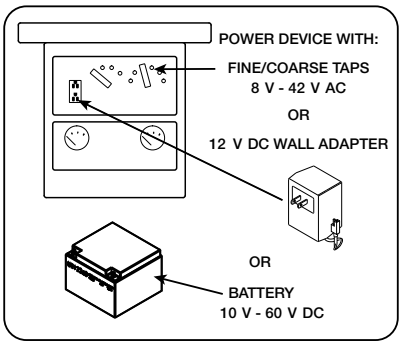
The following procedures are general steps for a typical installation. For specific instructions, see the *MicroMax GPS300/GPS350 User Guide* (part no. 122204-000) available from your website account under the **Help** menu.

1 Locate Power Source for MicroMax GPS300

1 Determine how to power the MicroMax GPS300 using one of the following sources:

- **a** With power turned *on* to the rectifier, use a voltmeter to locate a power source across any two available AC taps. The MicroMax GPS300 requires 8 - 42 V AC.
- **b** A 120 V AC convenience outlet with the 12 V DC wall adapter.
- **c** A DC source, such as a 10 - 60 V DC battery.

2 Turn **off** rectifier power.



2 Install Relay

1 If a relay is not already installed on the rectifier, install an AC, DC, or mercury relay according to the relay's installation instructions.

3 Connect Power Cable

1 Connect Power Cable to MicroMax GPS300 **Power / Relay Out** connection.

Power Cable

GPS300 Power / Relay Out Connection

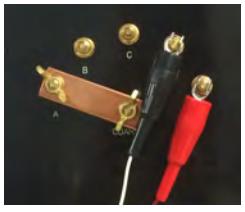
2 Connect relay control or coil to Power Cable **OUTPUT**. Be sure to observe proper polarity, especially if a flyback diode is present on a mercury relay coil.

Power Cable **OUTPUT**

3 Connect red/white twisted wire cable to **INPUT** connection on Power Cable. Then clip alligator clips to rectifier AC taps. Voltage range is 8-42 V AC.

NOTE: Power requirement is 10-60 V DC if connecting to a DC source such as a battery.

Twisted Wire Cable Connected to Power Cable



Alligator Clips on Rectifier Taps

4 Connect GPS Antenna Cable to MicroMax GPS300

1 Connect GPS antenna cable to MicroMax GPS300 **GPS Antenna** connection.

2 Place GPS antenna outside of rectifier in an area with a clear view of the sky.

GPS Antenna GPS300 GPS Antenna Connection

5 Program MicroMax GPS300

The following procedures are general steps for programming the GPS300 using the unit keypad. For instructions on programming the unit with Bullhorn Tools, refer to the online help available from the Bullhorn Tools **Help** menu or to the *MicroMax GPS300 & GPS350 User Guide*.

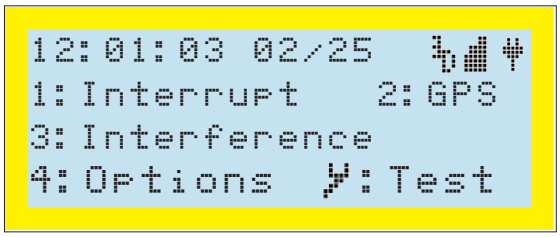
1 Power on the rectifier.

2 Press 2 to view GPS information.

3 Use ▲ and ▼ to change display contrast.

4 **OPTIONAL:** From the main menu, press ↵ to run Test Mode. Press PREV to return to main menu.

5 Press 1 to set up an **Interruption** program **OR** 3 to set up an **Interference** program.



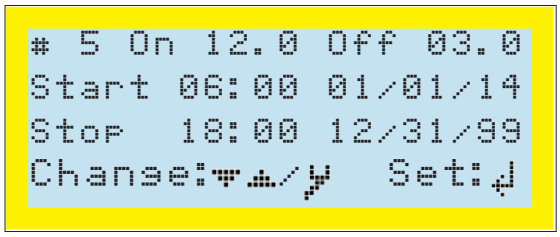
MicroMax GPS300 Main Menu

6 For **Interruption**, enter a number between 1 and 9 for the program number.

a Press ↵ to select interruption schedule - Daily, Continuous, or Start/Stop.

b Use ▲ and ▼ to move through fields; use keypad to change settings.

c Press ENTER to begin program.

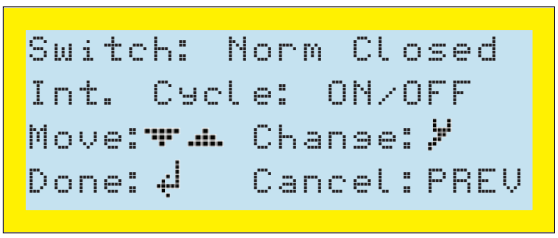


Interruption Program

7 For **Interruption Output Parameters**:

a Press 4 to access a list of **Options** and then 5 to view or edit **Switch** and **Int. Cycle** options.

b To change settings, move the cursor to the option and press ↵.



Out Parameters

8 For **Interference**:

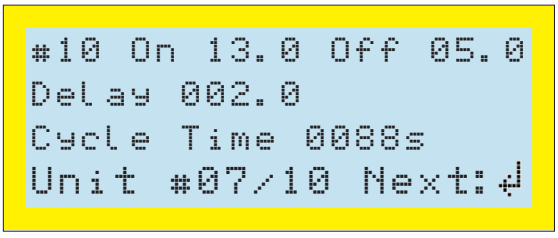
a Use ▲ and ▼ to move through fields. Use keypad to change settings.

b Press ENTER to select type of interruption.

c Press ↵ to select interruption schedule - Daily, Continuous, or Start/Stop.

d Use ▲ and ▼ to move through fields. Use keypad to change settings.

e Press ENTER to begin program.



Interference Program

9 Close and lock the clear cover on the MicroMax GPS300. Place interrupter inside the rectifier.

WARNING: Ensure that the antenna connection does not come into contact with any conductive surface of the rectifier.