

PRODUCT DATA SHEET



MicroMax[®] GPS80 Interrupter

American Innovations' **i-series MicroMax[®] GPS80 Interrupter** is a flexible CP current interrupter with no equal. It is the smallest, proven, lowest-cost fully programmable GPS synchronized interrupter on the market. It offers a choice of programmable cycles for continuous or scheduled interruption activated by selection key or via the **Bullhorn ICP** remote monitoring unit. The GPS80 is compatible with all other brands of GPS synchronized interrupter or logger. Users can define and store four different programs for later recall. Cycle range is up to 999.9 seconds in 0.1 second increments. The unit automatically resumes its programmed cycle if a power disruption occurs. After hours, the unit can be set to automatically generate full CP polarization.

Interrupt AC or DC! Versatility is being able to use mercury or solid state relays, and since the GPS80 can supply 500mA, interrupting multiple relays is no problem. The external relay configuration and the user configurable nature of the relay controller output allows for use of a standard relay supplied with the interrupter or a custom relay. Standard relays are 30 Amp Hg., 60 Amp Hg., 100 A Hg., 90 A/240 VAC solid state, and 100 A/100 VDC solid state. Interrupter output is user selectable and highly flexible. The output can be configured to 0V or 12V for ON or OFF. Synchronization can be set to be on the leading or falling edge of the interruption cycle.

The MicroMax GPS80 Interrupter is supplied with a GPS antenna, 110 VAC charger and cycle program selector key. Just attach the antenna, power supply and relay control; within minutes, your GPS synchronized interrupter cycle starts with status indicated by LED's. GPS synchronization is a breeze!



- **Low cost precise synchronized interruption**
- **Flexible - GPS Interruption the way you want it**
- **Remote monitoring option**
- **Relay independent**
- **Interrupt multiple rectifiers with one GPS80**
- **Store up to 4 interruption schedules**
- **Auto-resume after power loss (no need to reset interrupter)**

MicroMax[®] GPS80 Interrupter Options



MicroMax GPS80 Interrupter - Stand Alone Option

At last, an interrupter so small that it easily fits in the palm of your hand let alone most rectifiers. Reasonably priced, so now you can afford that GPS interrupter you've been trying to justify for so long. It can be permanently installed in a rectifier if that is what your CP program calls for.



MicroMax GPS80 Interrupter – OPTION 1 – Weatherproof case, rechargeable batteries, uses external relay

Do you need the versatility of the MicroMax but require it to be weather proof with backup batteries? OPTION 1 provides all the functionality of the MicroMax GPS80 PLUS weatherproof rugged packaging and a 2.6A.hr rechargeable backup battery allowing up to 8 hours of testing without an external power supply. Of course, the MicroMax GPS80 is easily removed to use as a stand alone interrupter as described above.



MicroMax GPS80 Interrupter - OPTION 2 – Weatherproof case PLUS rechargeable batteries and 60A internal mercury relay with external cables to switch rectifier

If you want an all-in-one interrupter, MicroMax GPS80 is your answer. By adding OPTION 2 you are provided with an affordable, small, self contained GPS synchronized interrupter that is ready to go! Simply connect, switch ON and GPS interruption will start within minutes. Additionally, you still have the option of using external relays in combination with, or without, the built in 60A relay. Also, the MicroMax GPS80 is easily removed to use as a stand alone interrupter as described above.

Products protected by one or more of the following patents:

U.S. D437,243 S

Canadian No. 92670

U.S. 5,933,092

U.S. 5,785,842

U.S. 7,027,957

Product Data Sheet: MicroMax GPS80

09/24/2008

Note: Product specs are subject to change without notice.

 **AMERICAN
INNOVATIONS**
Field Data Division

MicroMax GPS 80 – Technical Specifications

Supply Voltage.....Typical: 12V, Min: 10V, Max: 15V

Current Consumption (excludes current consumed by external switch).....100mA

Current Supply to switch at 12V, dependent on 12V source capacity.....Max: 500mA

Physical Dimensions (height/length/width).....1.34in. x 5.5in. x 3.66in.
(34mm x 140mm x 93mm)

Input Connections.....12V power, antenna, switch control, programming interface and interruption activation/deactivation

Expected Battery Life.....2-3 years

Rechargeable Back Up Battery Life.....8 hours

Operating Environment.....-40 to +85C

Enclosure Options.....stand alone or with Pelican™ case enclosure with rechargeable backup batteries; optional built-in 60A mechanical relay

Relay Options.....30 Amp Hg, 60 Amp Hg., 100 A Hg., 90 A/240 VAC solid state, 100 A/100 VDC solid state or custom