



# MicroMax® Current Interruption

American Innovations offers two flexible, fully-programmable, GPS synchronized current interrupters: the **MicroMax® GPS80** and **MicroMax® GPS200**.

The MicroMax GPS80 is the smallest, lowest-cost current interrupter on the market. The unit can be permanently installed inside the rectifier or temporarily installed during surveys. The rugged MicroMax GPS200 features an integrated keypad and LCD display for simplified field use. In addition, the Bullhorn RM4010 wireless remote monitor combines GPS200 interruption technology with a fully automated rectifier monitoring unit for an integrated monitoring and interruption solution. The RM4010 can be configured remotely with interruption parameters, reporting schedules, on-demand readings and updates.



Features	Benefits
GPS receiver and on-board clock updated every 15 seconds	GPS synchronized current interruption with precise timing
Fully programmable in 0.1 second increments (up to 999.9 seconds) for any on/off cycle combination	Operates in continuous, daily, dated and interference modes
GPS receiver and on-board clock updated every 15 seconds	GPS synchronized current interruption with precise timing
Interference Mode: instant on/off pipe-to-soil potentials from individual rectifiers (GPS200 only)	Interrupt multiple rectifiers with one MicroMax
Units provide 12v at 0.5 amps to control a wide range of relays	Use wide range of mercury or solid state, standard or custom relays
GPS80 is smallest interrupter available	GPS80 can be installed inside the rectifier box
Store multiple interruption programs	User-defined interruption schedules: up to four in GPS80, nine in GPS200
Auto-resume after power loss	Interruption automatically continues with same program once power is restored
Two-way current interruption/data communications option (RM4020)	RM4010 uses GPS200 technology for integrated monitoring and interruption solution

Specifications Summary	MicroMax GPS80	MicroMax GPS200
<b>Input Power</b>	DC: 10-15 VDC	AC: 80-240VAC, DC: 10-14VDC
<b>GPS Synchronization</b>	Yes	Yes
<b>Interruption Cycle</b>	Range: .1 - 999.9 sec. Increments: 100ms	Range: .1 - 999.9 sec. Increments: 100ms
<b>Interruption Capacity</b>	0.5 A relay drive capability	0.5 A relay drive capability
<b>Interruption Schedules</b>	4	9
<b>Start Phase</b>	ON or OFF	ON or OFF
<b>Internal Battery (rechargeable)</b>	Yes, 8 hour (Option 2)	n/a
<b>Enclosures</b>	<ul style="list-style-type: none"> <li>• Stand alone</li> <li>• Pelican™ case</li> </ul>	<ul style="list-style-type: none"> <li>• Stand alone</li> <li>• Pelican™ case</li> <li>• RM4010 w/ Interruption</li> </ul>
<b>Display</b>	N/A	Yes: LCD; Unit operates to -40C, display operates to -20C
<b>Environment</b>	-40°C to +85°C	-40°C to +85°C
<b>Weight</b>	0.5 lbs	4 lbs
<b>Dimensions</b>	1.34 X 5.5 X 3.66"	9.12 X 7.56 X 4.37"
<b>Relay Options</b>	30A NC Hg, 60A NC Hg, 100A NC Hg, 90A/240 VAC NO solid state, 125A/24-240 VAC NC solid state, 100 A/100 VDC NO solid state <sup>2</sup>	30A NC Hg, 60A NC Hg, 100A, NC Hg, 90A/240 VAC NO solid state, 125A/24-240 VAC NC solid state, 100 A/100 VDC NO solid state <sup>2</sup>
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Option 1: Pelican™ case w/ rechargeable backup battery, external relay</li> <li>• Option 2: Pelican™ case w/ rechargeable backup battery, 60A internal mercury relay, external cables to switch rectifier</li> </ul>	Included: AC cable, DC cable, output cable, GPS antenna w/ integral cable in canvas carry bag.

1) AI does not recommend an interrupter be powered with rectifier DC output

2) If fast cycle operation is common, AI recommends a solid state relay for maximum life and reliability. MicroMax is capable of being programmed for faster interruption cycles but it's recommended that customers not exceed 900 cycles per hour (or a cycle time of less than four seconds).

**Services.** American Innovations fully-trained Technical Service Engineers provide:

- Technical support via phone and email
- Installation Services
- Customer training (on-site and in the AI Austin, TX facility)
- Bullhorn Asset Tracker (BAT) data services

**About American Innovations.** American Innovations (AI) provides oil and gas companies with critical knowledge and decision support for assets and infrastructure via corrosion protection and integrity management services. The company supplies products and services to automate the collection, storage, and reporting of equipment and pipeline compliance data. Bass Engineering, a subsidiary of American Innovations, offers Cathodic Protection engineering services. American Innovations product lines include: Pipeline Compliance System (PCS), Allegro Field Data PC®, Bullhorn® Remote Monitoring, MicroMax® Current Interrupters, and Integrity Management via Risk Intelligence™ Software and Integrity & Compliance Services.

**Contact: 512-249-3400 | [rmdsales@aiworldwide.com](mailto:rmdsales@aiworldwide.com)**

**American Innovations • 12211 Technology Blvd. • Austin, TX • 78727**