



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

- GPS receiver and on-board clock updated every 15 seconds
- Fully programmable in 0.1 second increments (up to 999.9 seconds) for any on/off cycle combination
- Interference Mode: instant on and off pipe-to-soil potentials from individual rectifiers (GPS200 only)
- Units provide 12v at 0.5 amps to control a wide range of relays
- GPS80 is smallest interrupter available
- Store multiple interruption programs
- Auto-resume after power loss
- Two-way current interruption/data communications option (RM4010)

Benefits

- GPS synchronized current interruption with precise timing
- Operates in continuous, daily, dated and interference modes
- Interrupt multiple rectifiers with one MicroMax
- Use wide range of mercury or solid state, standard or custom relays
- GPS80 can be installed inside the rectifier box
- User-defined interruption schedules: up to four in GPS80, nine in GPS200
- Interruption automatically continues with same program once power is restored
- RM4010 uses GPS200 technology for integrated monitoring and interruption solution

Specifications Summary	MicroMax GPS80	MicroMax GPS200
Input Power	DC: 10-15 VDC	AC: 80-240VAC, DC: 10-14VDC
GPS Synchronization	Yes	Yes
Interruption Cycle	Range: .1 - 999.9 sec. Increments: 100ms	Range: .1 - 999.9 sec. Increments: 100ms
Interruption Capacity	0.5 A relay drive capability	0.5 A relay drive capability
Interruption Schedules	4	9
Start Phase	ON or OFF	ON or OFF
Internal Battery (rechargeable)	Yes, 8 hour (Option 2)	n/a
Enclosures	<ul style="list-style-type: none"> Stand alone Pelican™ case 	<ul style="list-style-type: none"> Stand alone Pelican™ case RM4010 w/ Interruption
Display	N/A	Yes: LCD; Unit operates to -40C, display operates to -20C
Environment	-40°C to +85°C	-40°C to +85°C
Weight	0.5 lbs	4 lbs
Dimensions	1.34 X 5.5 X 3.66"	9.12 X 7.56 X 4.37"
Relay Options	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 ²	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 ²
Accessories	<ul style="list-style-type: none"> Option 1: Pelican™ case w/ rechargeable backup battery, external relay Option 2: Pelican™ case w/ rechargeable backup battery, 60A internal mercury relay, external cables to switch rectifier 	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 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.

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