

PRODUCT DATA SHEET



Bullhorn ICP+

American Innovations' **Bullhorn**® ICP+ is a satellite based remote monitoring device that provides scheduled and by exception inbound reporting as well as two-way communication for on-demand reads and activating/ deactivating ancillary equipment. The device can be field upgraded to include a **MicroMax**® GPS80 current interrupter enabling the collection of IR-free cathodic protection (CP) reads in the most efficient, economical way possible. The ICP+ uses the Orbcomm satellite system and enables equipment monitoring and control in very remote locations. It is ideal for international use.

The ICP+ monitors many cathodic protection applications including rectifiers, test points and critical bonds. Instant on/off readings are available as scheduled or on-demand reads. It is also ideal for monitoring equipment in a number of other industries. The ICP+ provides automatic notifications of alarm events via email, cell phone or pager. With secure access, data can be viewed on the internet from anywhere in the world, day or night.



The ICP+ comes standard with 2 analog channels and can be expanded up to 4 analog channels. It has been designed in a modular fashion so that functionality can be added easily to meet the application need. Options include 1) the MicroMax GPS80 to enable interruption and 2) an I/O module providing 1 analog output, 5 discrete inputs and 2 discrete outputs.

ICP + Features & Benefits

- **Remote monitoring and control**
- **Instant off measurements**
- **Remote interruption by adding MicroMax GPS80 Interrupter**
- **Easy to install**
- **Configure via the web or locally with AI's Universal Configuration Tool**
- **Up to 4 analog channels and optional modular I/O**
- **Satellite for global coverage**

The ICP+ is compatible with the **AC Monitor** which converts AC voltage data into DC voltage data, allowing one to detect hazardous AC voltages induced on the pipeline system from high voltage electric transmission lines. Employee safety is enhanced since the ICP+ alarms and notifies the user when threshold AC voltage levels are exceeded. The ICP+ comes standard with interruption verification to keep the user abreast of interruption status during a survey. Analog inputs are available with filtering

and surge protection. In lightning prone areas, a 2 or 4 channel **ICP Isolator** may be added to provide **10KV** of additional surge isolation.

The ICP+ is easy to install, and configuration over the air via the satellite system is available. The ICP+ also offers the flexibility of local configuration via the Bullhorn Universal Configuration Tool using the program port on the front panel. Firmware upgrades are also easily accomplished via this port. The ICP+ accepts customer supplied AC or DC line power or DC solar power. The ICP+ comes standard with power outage sensing. In the event of power loss, an internal rechargeable battery provides backup power.

Product Specs

i	i-series ICP+
Data Inputs and Outputs	<p>Up to 4 Analog channels in standard product Available analog input ranges: +/- 250 VDC +/- 100 VDC +/- 10 VDC +/- 100 mVDC +/- 25mVDC</p> <p>Analog inputs are isolated</p> <p>Inputs specified at time of order</p> <p>Available I/O Module:</p> <ul style="list-style-type: none"> • 1 Analog Output, 5 Discrete Inputs, 2 Discrete Outputs • Up to 3 DI's can be used as accumulators (Max pulse rate = 1 pulse/sec.)
Config. Parameters	Configuration via web interface and local configuration possible via program port using the Universal Config Tool
Supporting Products	Optional MicroMax GPS80 Interrupter, I/O Module, AC Monitor, ICP Isolator
Power Supply	AC (Line Power Supplied by Customer) w/ Nominal Voltage of 110VAC. DC (line power supplied by customer) with input voltage of 12-26VDC. Backup battery has a Nominal Voltage of 12 VDC and 7AH Capacity. Solar Power Option Available for an additional fee.
Physical Description	Aluminum or Fiberglass enclosure available: Height- 13.5 inches, Width- 11.5 inches, Depth- 7.125 inches
Data Integrity	Data stored in non-volatile (EEPROM) memory
Compliance	Temp: -40 degrees C to +85 degrees C; Humidity: 0-95% non-condensing
Software Interface	Bullhorn secure website. Standard web browsers. AI Network operations center
Communications	Orbcomm satellite

For more information or to place an order:

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Product Options



Add an interruption option for IR-free reads with AI's MicroMax GPS80 Interrupter.



Available in a weatherproof fiberglass enclosure.

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

Bullhorn Product Data Sheet: Bullhorn ICP+:
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Note: Product specs are subject to change without notice.

A **A M E R I C A N**
I N N O V A T I O N S
 Field Data Division