American Innovations' Bullhorn® i-series 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 different kinds of equipment in the cathodic protection industry including rectifiers, test points and critical bonds. 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 unit is available in 2 and 4 analog channel versions. The 5th analog channel is used internally when a MicroMax is utilized and is not available for other purposes. Both versions have 6 digital inputs and 6 digital outputs. For CP applications, analog inputs are available with filtering and surge protection. The ICP is easy to install since all configuration of the device takes place via the satellite system, so there is no need for a laptop computer in the field. It accepts customer supplied AC or DC line power or DC solar power. In the event of power loss, an internal rechargeable battery provides backup power.

- Remote interruption by adding MicroMax GPS80 Interrupter
- Easy to install
- Configure via the web
- Up to 4 analog channels for external inputs
- Satellite for global coverage
REMOTE MONITORING
FOR TR’S

BULLHORN
REMOTE MONITORING

I - series ICP Product Information

Data Inputs
- Up to 5 Analog channels
- Available input ranges:
  - 0-100V
  - 0-10V
  - 0-100mV
- Analog inputs are isolated
- Inputs specified at time of order

Outputs
- 1 digital input available
- Remaining digital inputs:
  - Available for use with MicroMax GPS Current Interrupter

Config. Parameters
- Configuration via web interface

Supporting Products
- MicroMax GPS80 Interrupter, AC Present Sensor, Interruption Verification Sensor

Power Supply
- AC (Line Power Supplied by Customer) w/ Nominal Voltage of 110VAC.
- DC (line power supplied by customer) 15-36VDC.
- 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

Environmental
- Temp: -40 degrees C to +85 degrees C
- Humidity: 0-95% non-condensing

Compliance
- UL/CUL General Classification (pending); FCC Part 15; Enclosure: NEMA 4 compliant for all Bullhorn types

Software Interface
- Bullhorn secure website. Standard web browsers.

Communications
- Orbcomm satellite