

BULLHORN[®]

WIRELESS REMOTE MONITORING

The Bullhorn wireless monitoring system has a number of different devices capable of remote monitoring for scheduled and by-exception inbound reporting, as well as two-way communication for on-demand reads and activating/deactivating equipment. The units offer the ability to capture and send information from remote equipment easily and provide 100% coverage via digital cellular (GSM), LEOS satellite (ORBCOMM), and GEOS satellite (Inmarsat D+) communication systems.

This easy-to-install, reliable system is used in a wide variety of markets and applications. AI's systems have been deployed by every major oil and gas corporation in North America to monitor meters, storage tanks, cathodic protection systems, compressors, storage tanks, water/wastewater, irrigation and agricultural equipment and more. The Bullhorn system is available in the model types below.



Bullhorn APM4AM

Automated Meter Reading

Products

Unit reports utility meter readings daily with up to 6 digits of meter resolution. During installation, unit is set to match the meter's reading to allow for occasional verification of accuracy. Unit can be configured to store the reading at a particular time that may be different from the reporting time to ensure that meter readings from multiple meters are comparative.

Model types include:

- AMR6-GSM:** Same automated meter reading functionality as described above. Provides GSM digital cellular communications capability.
- AMR6-ORB:** Same automated meter reading functionality as described above. Provides Orbcomm satellite communications capability.
- AMR6-SAT:** Same automated meter reading functionality as described above. Provides Inmarsat D+ satellite communications capability.

Alarm Monitoring

Products

Standard APM4AM models have a total of 6 inputs. Channels 1-4 can be configured as analog ($\pm 5\text{VDC}$, $\pm 50\text{mVDC}$ or $4\text{-}20\text{mA}$) or active digital. Channels 5 and 6 can be configured as digital, active digital, accumulator or accumulator reset depending on the model selected. Digital signal options are described below. Enclosure options include an anodized aluminum (can) and/or plastic box, depending on the model type.

Model types include:

- APM4AM-GSM:** APM4AM functionality with GSM digital cellular communications capability and can enclosure.
- APM4AM-ORB:** APM4AM functionality with Orbcomm satellite communications capability and plastic box enclosure.
- APM4AM-SAT:** Data inputs operate like those of the APM4AMCPC models but do not have surge protection or rectifier interface. Provides Inmarsat D+ satellite communications capability and plastic box enclosure.

APM4AMCP: Designed for the corrosion professional, APM4AMCP models come standard with built-in surge protection and the ability to select from integral rectifier interface and/or test point filtering functionality. An optional AC Monitor, which converts AC voltage data into DC voltage data, is available. Channels 1, 3 and 4 can be analog ($\pm 5\text{VDC}$, $\pm 50\text{mVDC}$ or $4\text{--}20\text{mA}$) or active digital, and Channel 2 has the capability to accept input voltages up to $\pm 100\text{ VDC}$ or active digital. Channel 5 can be configured as a digital, active digital or an accumulator, and Channel 6 can be a digital, active digital or accumulator reset. Enclosure options include plastic box.

APM4AMCP-ORB: APM4AMCP functionality with Orbcomm satellite communications capability and plastic box enclosure.

APM4AMCP-SAT: APM4AMCP functionality with Inmarsat D+ satellite communications capability and plastic box enclosure.

Serial Data Terminal

Products

Serial Data Terminal units interrogate modbus-compatible instruments via an RS232 connection and reports register readings based on a configurable, transmission interval. Unit is compatible with ASCII, RTU Modbus, and several flow corrector protocols.

Model types include:

SDT16-GSM: Unit reports up to sixteen 6-digit register readings, eight 12-digit register readings, or a combination of both from ASCII or RTU Modbus equipment. Provides GSM digital cellular communications capability.

Remote Interruption, Control, and On-Demand

Products

INT300: The INT300 is a satellite-based remote monitoring device that features over-the-air configuration minimizing hands on after deployment, and almost unlimited flexibility in I/O options, as well as RS232/485 used to communicate with a large variety of Intelligent Electronic Devices using the standard modbus protocol. It's ideal for compressor, tank battery, utility and agricultural applications.

ICP+: The ICP+ is a satellite-based remote monitoring device that provides scheduled and by exception in-bound 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. An optional AC Monitor, which converts AC voltage data into DC voltage data, is available. 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.

About American Innovations:

Based in Austin, Texas, American Innovations (AI) is a fast growing provider of products and services for the oil & gas, water & wastewater and agriculture industries, including web-based remote monitoring & equipment control, total survey solutions for corrosion monitoring, automatic meter reading, alarm point monitoring and integrity management. AI product lines include: Bullhorn[®] Remote Monitoring, MicroMax[®] Current Interrupters, CP Loggers, Allegro Field PC[®], Pipeline Compliance System (PCS) and Risk Intelligence[™] Platform and Solutions. AI also offers cathodic protection services via Bass Engineering.

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