

Bullhorn APM4AM Remote Monitor



The APM4AM remote monitoring unit allows customers to monitor the performance and operation of oil, gas, water, and wastewater assets such as city gates, compressors, storage tanks, lift stations, gas meters, water samplers, and more. Satellite or cellular networks are used for one-way, global, low-latency communications. Solar panel and battery provide reliable power in areas where the main power source may be unreliable or unavailable. The APM4AM remote monitoring unit measurements are automatically uploaded to Bullhorn Web, a web-based asset manager that can notify users of issues via email, text message, or online.

Remote Monitoring For:

Oil and Gas Assets, including:

- City Gates
- Compressors
- Storage tanks
- Pumping stations
- Gas meters
- Saltwater disposal tanks

Water and Wastewater assets, including:

- Lift Stations
- Storage tanks
- Water Samplers

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Key Benefits

Rugged

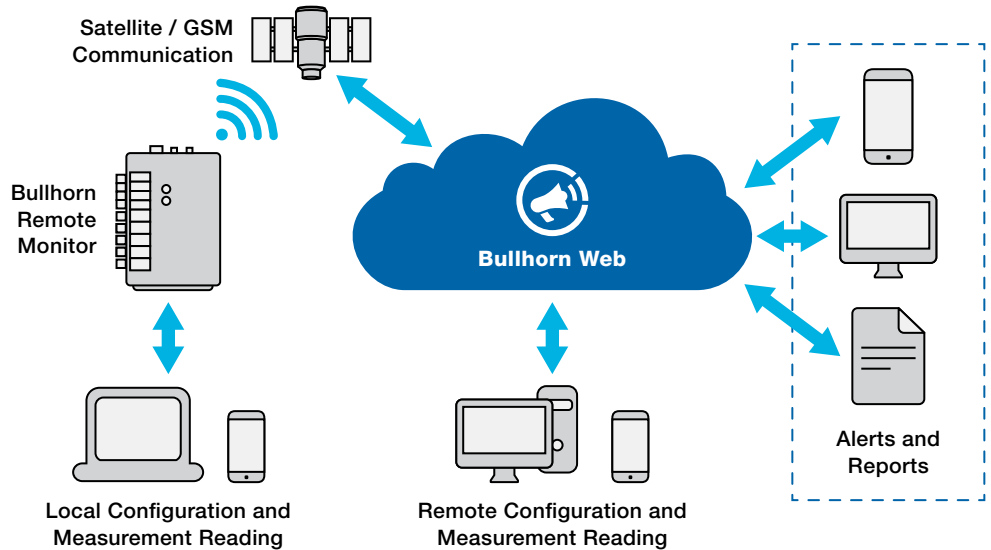
The unit can withstand off-harsh working conditions and corrosive environments.

Reliable

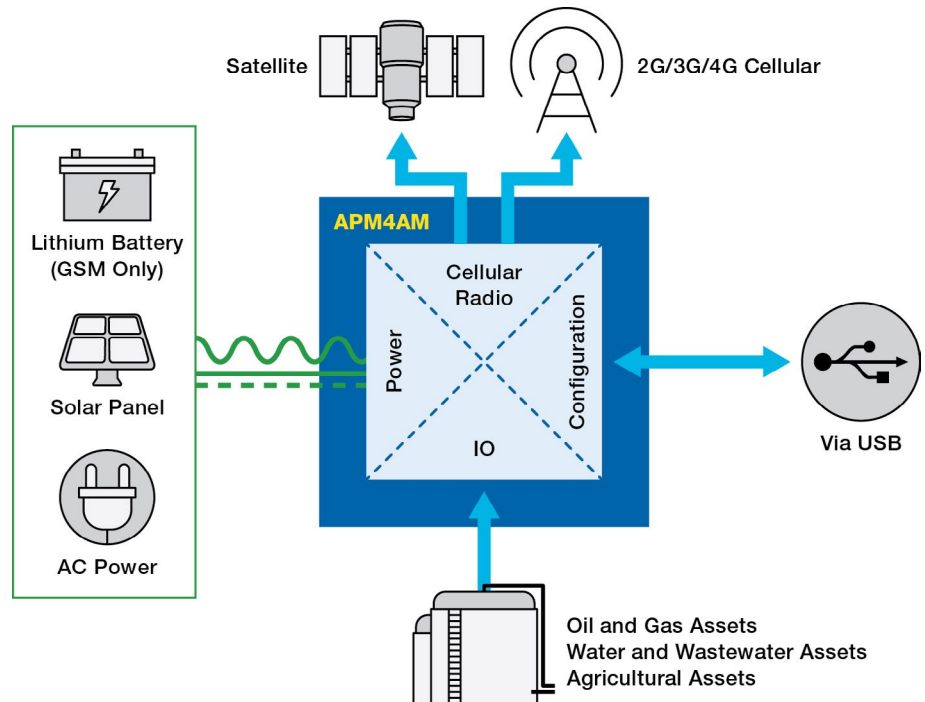
Solar panel and battery provide reliable power in areas where the main power source may be unreliable or unavailable. Even if the primary power source is compromised, users continue to receive alarms due to the device's internal battery.

Flexible

Regardless of location, the most cost effective and reliable communication method can be used. Supports data communication via satellite or GSM cellular networks.



Bullhorn Communications Architecture



APM4AM System Diagram

Bullhorn APM4AM Specifications

Inputs

Analog or Digital channels: Channels 1- 4: ± 5 V DC

Digital Channels: *GSM Model*

Digital Input: Channel 5: Digital or Accumulator
Channel 6: Digital, Accumulator, or Accumulator Reset

Minimum Logic: 1 = 2 V

Maximum Logic: 0 = 800 mV

Accumulator: Maximum cycle rate = 2.5 cycles/s;
minimum state change period = 100 ms

Digital Channels: *Satellite Model*

Digital Input: Channel 5: Digital or Accumulator
Channel 6: Digital or Accumulator Reset

Minimum Logic: 1 = 2 V

Maximum Logic: 0 = 800 mV

Accumulator: Maximum cycle rate = 1 cycle/2 s;
minimum state change period = 1 s

Communications

Three models available:

- SkyWave – Inmarsat satellite
- Cellular GSM

Software Interface

Bullhorn Web

AI network operations center

Power Supply

Sealed lead-acid gel battery with solar or AC charger

Optional lithium battery for GSM unit

Dimensions

Weatherproof enclosure measuring 8.5" x 6.5" x 4.5"

Anodized aluminum can (3.66" x 5.5" without antenna)
optional for GSM unit

Data Integrity

Data stored in non-volatile (EEPROM) memory.

Environment

Temperature: -30° C to +70° C

Humidity: 0-100% non-condensing

Compliance

FCC Part 15, NEMA 4X compliant enclosure, ESD: 8 kV Air / 4 kV Contact

For More Information

Services

Expect Relentless Service from our Remote Monitoring Technical Services team.

- Technical support is provided by NACE-certified professionals via phone and email.
- Approximately 98 times out of 100, a highly-qualified professional will answer your very first phone call and handle your questions. No call backs; no phone tag.
- We set you up for success with product training, offered at your place of business or ours.

Contact

For more information, email us at remote_monitoring_sales@aiworldwide.com, call us at [800-229-3404](tel:800-229-3404), or visit us online at aiworldwide.com.

Visit aiworldwide.com for These Resources

[Bullhorn Comparison Chart](#)

[Bullhorn APM4AM Installation and Configuration Quick Reference Guide](#)

[Surge Arrester High Energy Installation Quick Reference Guide](#)

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