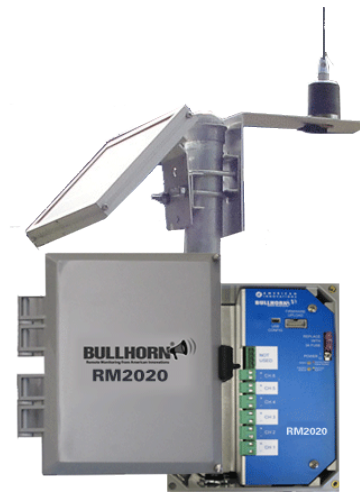


**Bullhorn Remote Monitoring Data Communication**



The **Bullhorn RM2020** monitors a variety of assets in oil & gas, water, irrigation and agricultural industries by utilizing a low-cost satellite network to communicate measurement results. The RM2020 is ideal for general purpose monitoring and captures data from city gates, compressors, lift stations, irrigation equipment, agricultural assets and more.



**Applications**

- ✓ **Oil & Gas assets, including:**
  - City gates, compressors, storage tanks, pumping stations, gas pressure & gas measurements
- ✓ **Water & Wastewater assets, including:**
  - Lift stations, irrigation systems, storage tanks, liquid flow measurements, water samplers
- ✓ **Agricultural assets, including:**
  - Poultry equipment, generators, feeders, security

**Features**

- Inputs: 4 analog (1-4), 2 digital channels (5-6). Channel 5 can be digital or accumulator; channel 6 can be accumulator or accumulator reset
- Data communication via satellite network
- Built-in surge protection
- Solar Power: 1.6Wanel, 3.4 Amp-Hr sealed lead-acid battery backup
- Bullhorn Asset Tracker (BAT™) system communicates unit status by email, voice and/or text notifications. Includes BAT™txt and BAT™mobile.
- Configurable locally via USB

**Benefits**

- Measure data from city gates, compressors, lift stations, irrigation equipment, agricultural assets and more
- Satellite coverage eliminates need to estimate coverage (required with cellular-based products)
- Long term product reliability
- Easy to install. Save configuration settings and load to multiple units
- Notifications on equipment status eliminates remote site visits & on-the-go access via smartphone
- Save config. settings; load to multiple units

RM2020	Specifications Summary
<b>Inputs</b>	<p><b>Analog channels:</b></p> <ul style="list-style-type: none"> <li>• <b>1, 2, 3, 4:</b> Analog (<math>\pm 5</math>VDC)</li> <li>• <b>Accuracy:</b> 2% of reading</li> <li>• <b>Scan rate:</b> analog channels are sampled every 16 seconds</li> <li>• <b>Channel to Channel Isolation</b> <math>\geq 250</math>VDC</li> </ul> <p><b>Digital channels:</b></p> <ul style="list-style-type: none"> <li>• <b>5:</b> Digital, Accumulator, or Contact Closure(0-15 VDC)</li> <li>• <b>6:</b> Digital, Accumulator Reset or Contact Closure (0-15VDC) Logic 1 = 2Vmin, Logic 0=800mVmax</li> <li>• <b>Accumulator:</b> Max. input = 1 cycle/2 sec., Min. Width = 1 sec/state change</li> <li>• <b>Scan rate:</b> each channel is read once per second</li> </ul>
<b>Communications</b>	ORBCOMM satellite network
<b>Software Interface</b>	Bullhorn Asset Tracker website. AI network operations center.
<b>Power Supply</b>	• Solar: 3.4 Amp-Hr sealed lead acid battery with 1.6W solar panel
<b>Dimensions</b>	Polycarbonate box enclosure (8.5 X 6.5 X 4 .5")
<b>Data Integrity</b>	Data stored in non-volatile (EEPROM) memory
<b>Environment</b>	Temperature: -30 degrees C to +70 degrees C. Humidity: 0-100% non-condensing.
<b>Compliance</b>	FCC Part 15. Enclosure - NEMA 4X compliant. ESD: 8kV Air/ 4kV Contact.

**Services.** American Technical Service Engineers provide:

- Technical support via phone and email
- Bullhorn 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<sup>®</sup>, Bullhorn<sup>®</sup> Remote Monitoring, MicroMax<sup>®</sup> Current Interrupters, and Integrity Management via Risk Intelligence<sup>™</sup> Software and Integrity & Compliance Services.

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