

### Bullhorn Remote Monitoring Data Communication



American Innovations' **Bullhorn SDT16 (Serial Data Terminal)** monitors gas compressors and other assets in the oil & gas industry by utilizing reliable satellite and digital cellular networks to communicate measurement results. SDT16 units can report up to sixteen 6-digit register readings, eight 12-digit register readings, or a combination of the two register sizes. It reads alarm codes, RPMs and runtime via Modbus® from Murphy and Altronic annunciators. The SDT16 also provides a general purpose digital input for additional inputs such as oil pressure switches.



### Applications

✓ **Oil & Gas assets, including:**

- Gas compressors, electronic flow meters (EFMs) and more

Features	Benefits
Inputs: Up to sixteen 6-digit register readings, eight 12-digit register readings, or combination of both	Measure data from gas compressors and electronic flow meters (EFMs)
Annunciator Protocols: Modbus (RTU or ASCII), Mercury, Dresser, Reynolds	Compatible with most commonly used oil & gas annunciator protocols
Data communication via satellite (Inmarsat or Orbcomm) or digital cellular networks	Reliable, cost-effective data communication
Power: rechargeable sealed lead-acid battery with solar panel or AC charger	Long term product reliability & easy installation
Bullhorn Asset Tracker (BAT™) system communicates unit status by email, voice and/or text notifications; includes BAT™txt and BAT™mobile	Notifications on equipment status eliminate remote site visits. On-the-go access to BAT™ via smartphone and in remote areas with low signal strength
Compressor "shutdown" codes mapped to alarm descriptions on BAT™	Online visibility into the status of the equipment at the time of the alarm
Proven backend system for data storage & disaster recovery	Bullhorn unit data stored for 18 months

SDT16	Specifications Summary
<b>Inputs</b>	User Selectable Inputs: Up to 16 6-digit register readings, 8 12-digit register readings or a combination of both via RS232 direct connection.  1 Digital alarm input, contact closure  Protocols: <ul style="list-style-type: none"> <li>•Modbus (RTU or ASCII)</li> <li>•Mercury</li> <li>•Dresser</li> <li>•Reynolds</li> </ul>
<b>Communications</b>	•Inmarsat Satellite •Orbcomm Satellite •Digital cellular
<b>Software Interface</b>	Bullhorn Asset Tracker website. AI network operations center.
<b>Power Supply</b>	Sealed lead-acid gel cell battery w/ solar or AC charger
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>•Satellite unit: Polycarbonate box enclosure (8.5 X 6.5 X 4 .5")</li> <li>•Cellular unit: Polycarbonate box or anodized aluminum an (3.66 X 5.5" without antenna)</li> </ul>
<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 Austin, TX) | Bullhorn Asset Tracker (BAT) 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®, Bullhorn® Remote Monitoring, MicroMax® Current Interrupters, and Integrity Management via Risk Intelligence™ Software and Integrity & Compliance Services.

Product	Application	Comm. Method	Features
<b>Bullhorn RM2012</b>	General Purpose & Agriculture	Inmarsat satellite	7 wireless Digital Inputs, Solar & AC power with battery backup
<b>Bullhorn RM2020</b>	General purpose	Orbcomm satellite	4 Analog Inputs, 2 Digital Inputs, Solar & AC power with battery backup
<b>Bullhorn RM4010</b>	Cathodic Protection, two-way with interruption	Inmarsat satellite	Low-latency worldwide coverage, 4 Analog Inputs, 2 Digital Inputs, GPS-based current interruption, AC power with battery backup
<b>Bullhorn RM4012</b>	Cathodic Protection, Current Density, Induced AC Voltage	Inmarsat satellite	4 Analog Inputs monitoring AC Amperage, AC & DC pipe-to-soil potentials, AC current density on test coupon
<b>Bullhorn RM4020</b>	Low-cost Cathodic Protection monitoring	Orbcomm satellite	Low-cost worldwide coverage, 4 Analog Inputs, 2 Digital Inputs, Solar & AC power with battery backup
<b>Bullhorn AMR6</b>	Gas measurement	Inmarsat & Orbcomm satellite Digital cellular	6 digital accumulator or Digital Input, Solar, AC, or Lithium battery power options
<b>Bullhorn APM4AM</b>	General purpose	Inmarsat satellite Digital cellular	Analog Inputs, 2 Digital Inputs, Solar & AC power with battery backup
<b>Bullhorn SDT16</b>	Compressor, oil & gas equipment	Inmarsat & Orbcomm satellite Digital cellular	Supports Modbus, Mercury, Dresser, and Reynolds protocols communication, up to 16, 6-bit registers or 8, 12-bit registers, 1 digital input

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Bullhorn Product Data Sheet: Bullhorn SDT16-SAT  
10/25/2011

**Note: Product specs are subject to change without notice.**