Product Data Sheet — Bullhorn SDT16-SAT

BULLHORN WIRELESS REMOTE MONITORING

American Innovations' **SDT16-SAT** Bullhorn wireless remote monitoring unit is ideal for monitoring compressors and other oil and gas assets by utilizing wireless technology and a reliable satellite network to communicate data. The proper operation of gas compressors, as well as other industrial equipment, is critical to efficient production of natural gas.

Bullhorn SDT16-SAT Benefits

- Reads alarm codes, RPMs and runtime via Modbus® from Murphy and Altronic annunciators
- Monitors inputs from equipment like compressors 24/7, and provides timely alarms on equipment failures using a reliable, low earth orbiting satellite communication network
- Alarm notifications communicated via email, text, voice, fax and/or page
- Data collected by units can be viewed from Bullhorn Asset Tracker, AI's secure online website
- All transmissions to the Bullhorn Asset Tracker contain time stamps for data reporting

The average compressor shutdown lasts for at least 12 hours: for a unit moving 1000 million cubic feet per day, that downtime means thousands of dollars in lost revenue. Knowing instantly when and why a compressor ceases operating is an enormous benefit to production companies and compressor rental companies.

The Bullhorn 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-SAT provides constant monitoring of equipment and a timely response to alarm conditions, including a drop in an oil pressure sensor. The unit provides email, text, voice, fax and/or page notifications to communicate that a preset alarm condition has occurred, allowing the potential problem to be addressed efficiently. Notifications are sent to users via the Inmarset satellite network, which provides low latency communication in regions where cellular coverage is not available.

Bullhorn SDT16-SAT installation on a compressor

The unit communicates data to a personal webpage on the **Bullhorn Asset Tracker** (BAT) online system. BAT allows for immediate, in-depth visibility of unit status and alarms and provides a proven backend system to collect, store and report on crucial equipment data. All compressor-related "shut down codes" are mapped to alarm descriptions, allowing online visibility into the status of the equipment at the time of the alarm.

For more information:

US/CA/MEX/Cen. & S. America - Paul Lucco, Business Development Director / paul.l@aiworldwide.com (713) 705-1875

All Other Non-US Countries - Neil Pickthall, Business Dev. Manager neil.p@aiworldwide.com (832) 656-4225

American Innovations/ 12211 Technology Blvd. / Austin, TX / 78727 / 800-229-3404

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Note: Product specs are subject to change without notice.

AMERICAN INNOVATIONS
Field Data Division

BULLHORN PRODUCT SPECIFICATIONS

	SDT16-SAT
Data Inputs and Outputs	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: • Modbus (RTU or ASCII) • Mercury • Dresser • Reynolds
Config. Parameters	Description of each input; Alarm conditions per input; Number of daily health checks
Supporting Products	Requires configuration kit
Power Supply	Sealed Lead-acid gel cell battery w/ solar or AC charger
Physical Description	Plastic box enclosure (8.5 X 6.5 X 4.5")
Data Integrity	Data stored in non-volatile (EEPROM) memory
Environment	Temp: -30 degrees C to +70 degrees C
Compliance	FCC Part 15; Enclosure: NEMA 4X compliant
Software Interface	Bullhorn secure website. Standard web browsers. AI Network operations center
Comm.	Inmarsat D+ Satellite

Products protected by one or more of the following patents:
U.S. D437,243 S
Canadian No. 92670
U.S. 5,933,092
U.S. 5,785,842