

# PRODUCT DATA SHEET



## SDT16 Serial Data Terminal


American Innovations' **SDT16 Bullhorn** wireless remote monitoring units are ideal for collecting information from "smart" field equipment that uses the Modbus RS-232 protocol for communication. Bullhorn can be used to communicate critical information on a frequency chosen by the customer rather than attempting to send the entire data file that the smart device is capable of creating. In the gas metering market, the units collect information from all leading volume correctors (including Mercury Instruments, Reynolds Equipment, Dresser, and Galvanic Applied Sciences devices), electronic flow meters or EFMs (including Total Flow, Flow Automation, Emerson, and Bristol) and PLC/EFM devices (including Control MicroSystems SCADAPack). Vendor specific protocols are provided for Mercury, Reynolds and Dresser.



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. This device provides low cost coverage by utilizing the GSM digital cellular network or Orbcomm Low Earth Orbit Satellite system. The unit interrogates Modbus compatible instruments via an RS-232 connection using ASCII or RTU protocols and reports register readings on a flexible frequency.

Instant notification of alarm events via pager, fax, email and/or voice notification are available providing that the smart device can close a dry contact when an alarm condition occurs. The SDT16 senses the contact closure, collects the information from the alarm registers, and forwards that information as a notification to the customer. Clients can access data from the Bullhorn web site via an internet browser from anywhere in the world, day or night. The automatic transfer of data from the Bullhorn system to customer business systems is optionally available as well.

The cellular version of the SDT16 is available in an anodized aluminum enclosure (NEMA 4X compliant and UL/CUL approval pending) or a 3" diameter PVC enclosure. The satellite version of the SDT16 is offered in a NEMA 4X compliant plastic enclosure. Mercury also offers the "Bullhorn Inside" option where the Bullhorn unit comes from the Mercury factory inside of the volume corrector. Each unit comes standard with a sealed lead-acid gel cell battery with solar or AC charger. Cellular units are also available with a lithium battery option capable of 1500 transmissions.

	<b>SDT16</b>
<b>Data Inputs and Outputs</b>	<p>User Selectable Inputs: Up to 16 6-digit register readings, 8 12-digit register readings or a combination of both via RS232 direct connection.</p> <p>1 Digital alarm contact closure</p> <p>Protocols:</p> <ul style="list-style-type: none"> <li>• Modbus (RTU or ASCII)</li> <li>• Mercury</li> <li>• Dresser</li> <li>• Reynolds</li> </ul>
<b>Config. Parameters</b>	Description of each input; Alarm conditions perinput; Number of Daily health checks
<b>Supporting Products</b>	Requires configuration kit
<b>Power Supply</b>	Sealed Lead-acid gel cell battery w/ solar or AC charger; optional lithium battery for cellular model only.
<b>Physical Description</b>	Cellular version: 1) anodized aluminum can (3.66 X 5.5" w/o antenna); sealed, selfcontained unit includes antenna, power supply & mounting bracket; optional 3" PVC enclosure or plastic box enclosure (8.5 X 6.5 X 4.5"). Satellite version in plastic box enclosure only.
<b>Data Integrity</b>	Data stored in non-volatile (EEPROM) memory
<b>Compliance</b>	FCC Part 15; Enclosure: NEMA 4X compliant for all Bullhorn types.
<b>Software Interface</b>	Bullhorn secure website. Standard web browsers. AI Network operations center
<b>Communications</b>	GSM Digital Cellular or Orbcmm satellite

**For more information or to place an order:**

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**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