



LACT Meter (Lease Automatic Custody Transfer)

American Innovations' **AMR6 Bullhorn®** is ideal for the wireless remote monitoring of oil volume moving through a Lease Automatic Custody Transfer (LACT) Meter. With this device, operators accurately track the number of barrels that move into the pipeline inexpensively and address potential inconsistencies.

The AMR6 unit receives pulse communications from the LACT meter and converts pulse counts to barrels of oil. The unit reports the number of pulses from the LACT meter that occur during a user-defined time period, often set to 24 hours for LACT meter applications. The device communicates measurement results through low-latency digital cellular or satellite networks. The units feature 6 digits of meter resolution for daily data reporting; when Bullhorn is deployed across multiple LACT meters, operators can balance volume both by unit and by group every day.



The data is then communicated wirelessly to **Bullhorn Asset Tracker (BAT™)**, the powerful web-based asset management interface for Bullhorn. BAT provides immediate, in-depth visibility of unit status and alarms, and a proven backend system to collect, store and generate reports on equipment data. Notifications of pre-set alarm conditions are sent via email, voice and/or text message. Users have on-the-go access to BAT in a smartphone optimized format via **BAT™mobile**, and **BAT™txt** allows customers to communicate with units via SMS, even in low signal areas. The BAT system is also capable of an ftp transfer of data from into liquid databases.

Features	Benefits
Inputs: 1 dry contact closure or digital - accumulates up to a 6 digit reading	Measure data accurately from gas meters and LACT meters, reduces paperwork and eliminates "human" errors
Real-time reporting on daily volume, status, alarms and more	Address inconsistencies from oil theft and loss immediately with data on gas usage and/or oil volume and view historical trends
Bullhorn Asset Tracker (BAT™) system communicates unit status and measurement results by email, voice and/or text notifications; includes BAT™txt and BAT™mobile	Measurement data and equipment status available on any computer, smartphone or tablet with internet access
Global coverage via low-latency Inmarsat geostationary satellite or cellular networks	Timely, cost-effective worldwide data communication
Power: sealed lead-acid battery with solar or AC charger or optional lithium battery for cellular model	Eliminates need for onsite power source, simplifies installation, isolates system from harmful surges
Bullhorn unit data stored in NEBS Standard Compliant, Telecom-Class facility for 18 months	Proven, secure backend & easy access to historical data
Automated, FTP data transfer between BAT and liquid databases	Seamless integration of critical data between systems

BAT™ provides for immediate, in-depth visibility of unit status and alarms. Individual units can be viewed on a map.

BAT™mobile provides data anywhere, anytime.

AMR6	Specifications Summary
Inputs	1 Dry Contact Closure or Digital: Accumulates up to a 6 digit reading Dry contact: <ul style="list-style-type: none"> • 22µA source current • Max rate = 2.5 cycle/sec. , Min. width = 100 millisecond/state change Digital channel: <ul style="list-style-type: none"> • Logic 1 = 2Vmin, Logic 0=800mVmax • Accumulator: Max. input = 1 cycle/2 sec., Min. Width = 1 sec/state change • Scan rate: each channel is read once per second
Communications	•GSM Digital Cellular •Inmarsat Satellite
Software Interface	Bullhorn Asset Tracker website. AI network operations center.
Power Supply	•Sealed lead-acid gel cell battery w/ solar or AC charger. Optional lithium battery for GSM unit.
Dimensions	•Satellite unit: Polycarbonate box enclosure (8.5" X 6.5" X 4 .5"), excluding satellite radio •Cellular unit: Polycarbonate box or anodized aluminum an (3.66" X 5.5" excluding cellular antenna)
Data Integrity	Data stored in non-volatile (EEPROM) memory
Environment	Temperature: -30 degrees C to +70 degrees C. Humidity: 0-100% non-condensing.
Compliance	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.

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