

Bullhorn RM4016 Remote Monitor



The RM4016 remotely collects cathodic protection (CP) measurements used to demonstrate corrosion mitigation effectiveness. It monitors pipelines, well casings, tanks and other assets by reading rectifier AC and DC volts and amps, pipe-to-soil potential, shunts, test points, and critical bonds. The unit can survive the harshest of conditions, with built in surge protection and optional high energy surge arrester. Solar panel and battery provide reliable power in areas where the main power source may be unreliable or unavailable.

Remote Monitoring For:

- Rectifier AC and DC volts and amps
- Pipe-to-soil potential
- Shunts
- Critical bonds
- Test points

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Key Benefits

Rugged

The unit can survive the harshest of conditions, with built in surge protection and optional high energy surge arrester.

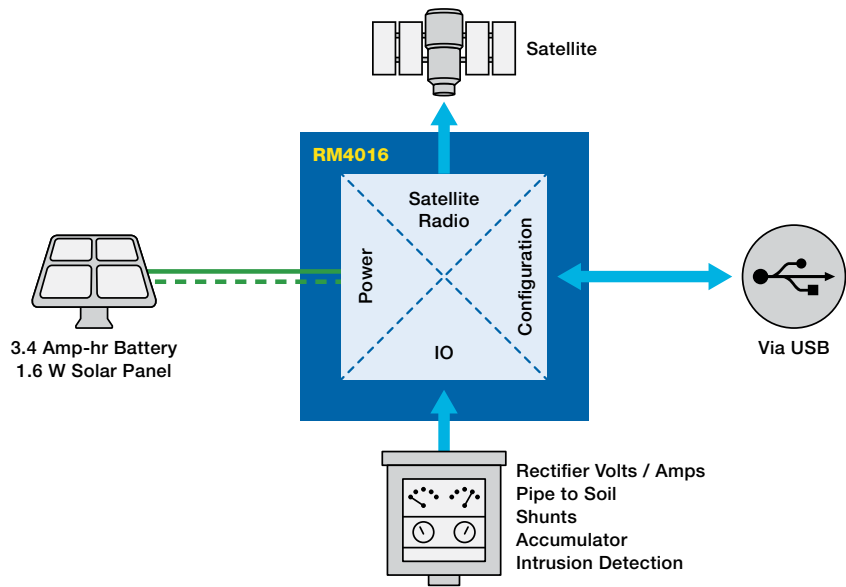
Reliable

Solar panel and battery provide reliable power in areas where the main power source may be unreliable or unavailable.

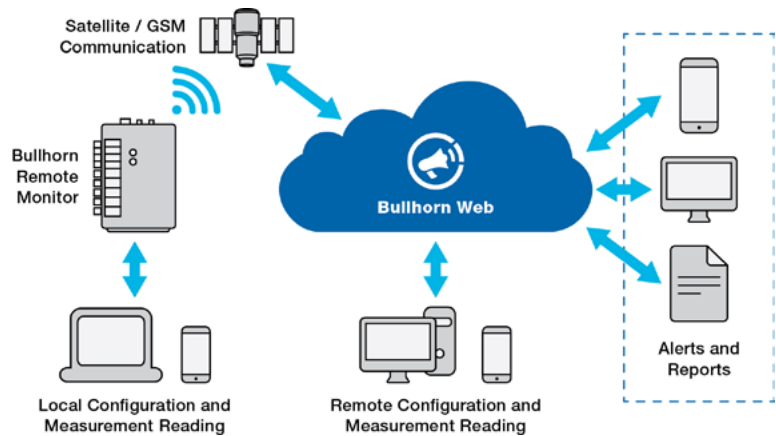
Integrated Compliance Solution

Complete end-to-end system to prove regulatory compliance, with filtered measurements easily imported into PCS where they can be made into compliance reports.

The RM4016 remotely collects cathodic protection (CP) measurements used to demonstrate corrosion mitigation effectiveness. It monitors pipelines, well casings, tanks and other assets by reading rectifier AC and DC volts and amps, pipe-to-soil potential, shunts, test points, and critical bonds. The Orbcomm IsatData Pro satellite network is used for one-way, global, reliable, low-latency communications. The solar-paneled RM4016 reduces the costs and risks of connecting to 120 V/240 V AC "mains," as well as providing a more reliable power source in areas where the main power source may be unreliable. Measurements are automatically uploaded to Bullhorn Web, a web-based asset manager that works with AI's Pipeline Compliance System to form a full end-to-end regulatory compliance solution from measurement to reporting.



RM4016 System Diagram



Bullhorn Communications Architecture

Bullhorn RM4016 Specifications

Inputs

4 Analog Channels

Channels 1, 3, 4 DC voltage range: +/- 5 V

Channel 2 DC voltage range: +/- 100 V

Accuracy of 2% of reading

Scan rate: once every 16 seconds

Channel-to-channel isolation: ≥ 250 V DC

2 Digital Channels

Functions: Digital input, accumulator, accumulator reset, or contact closure (0 - 15 V DC)

Minimum logic: 1 = 2 V

Maximum logic: 0 = 800 mV

Scan rate: once per second

Minimum pulse width: 250 ms

Communications

Orbcomm - IsatData Pro

Software Interface

Bullhorn Web

Bullhorn Tools for PC

Power Supply

Solar: 3.4 Amp-Hr sealed lead acid battery with 1.6 W solar panel

Dimensions

Weatherproof enclosure 8.5" x 6.5" x 4.5"

Data Integrity

Data stored in non-volatile (EEPROM) memory.

Environment

Temperature: -30° C to +70° C

Humidity: 0-95% non-condensing

Compliance

FCC Part 15

NEMA 4X compliant enclosure

ESD: 8kV Air / 4 kV Contact

For More Information

Services

Expect Relentless Service from our Remote Monitoring Technical Services team.

- Technical support is provided by NACE-certified professionals via phone and email.
- Approximately 98 times out of 100, a highly-qualified professional will answer your very first phone call and handle your questions. No call backs; no phone tag.
- We set you up for success with product training, offered at your place of business or ours.

Contact

For more information, email us at remote_monitoring_sales@aiworldwide.com, call us at [800-229-3404](tel:800-229-3404), or visit us online at aiworldwide.com.

Visit aiworldwide.com for These Resources

[Bullhorn Comparison Chart](#)

[RM4013 Installation and Configuration Quick Reference Guide](#)

[Surge Arrester High Energy Installation Quick Reference Guide](#)

About American Innovations

American Innovations (AI) protects people and the environment by helping our customers safely and efficiently manage the world's energy infrastructure. We deliver proven compliance solutions to virtually every oil and gas transmission pipeline company in North America – from the field to the office. We provide an integrated family of hardware, software and professional services backed by relentless customer service. Our products include: Bullhorn® Remote Monitoring, MicroMax® Current Interrupters, Allegro Field Data PC™, PCS™ compliance software, and Risk Intelligence Platform (RIPL™) software. AI also provides a wealth of professional services including data migration, risk analysis, high consequence area (HCA) analysis, and regulatory compliance consulting.

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aiworldwide.com

12211 Technology Blvd. • Austin, TX 78727
800-229-3404 • info@aiworldwide.com