

Bullhorn® RM4211 Remote Monitoring Unit (RMU)

Capture AC & DC Voltage Measurements With Our Most Adaptable Bullhorn RMU



The RM4211's three high-voltage analog measurement channels work across a variety of applications, capturing measurements like: AC/DC Pipe-to-Soil, instant-off, shunts, rectifier Volts and Amps. Satellite connectivity ensures your data is always accessible from any location. Key benefits are listed below. For the full list and to request more information, please visit go.aiworldwide.com/RM4211

- **Versatile** – Facilitates remote monitoring across a range of applications including mid-point test stations, bonds, solar powered rectifiers and more. Its design allows for IR-free instant-off readings from a coupon for annual interrupted surveys. It can be mounted on any 3" riser or rectifier. The RM4211 is capable of measuring up to 100 V on a rectifier or low voltage on a test point application. Quickly identify problem areas and ensure Cathodic Protection (CP) effectiveness using flexible reports generated from Bullhorn Web.
- **Powerful** – No power, no boat, no helicopter, no problem. Its long-lasting battery life (up to five years) combined with satellite connectivity means the RM4211 can be used in very remote locations like swamps, mountains and private land where cell signal and power sources are not available.
- **Efficient** – Streamlined features deliver all the general purpose CP applications you need cost-effectively. Its components, including antenna, are internal so it is easy to transport and install, and less likely to incur damage. Practical and accurate, the RM4211 measures with one percent of reading accuracy all the way through the range with auto-calibration and auto-zero for every measurement. The measurements are automatically uploaded to Bullhorn Web for diagnosis, monitoring and optimization.

Bullhorn RM4211

Specifications

Input measurement level	±100 V DC 0-100 V AC
Input impedance	10 MΩ
Channel-to-channel isolation:	>200V
Readings	Three analog measurements; any combination of AC & DC Pipe-to-Soil, On and Off Potentials, Rectifier Volts and Amps (with external shunt) and Bond Negatives. Instant-off through Coupon. One percent reading accuracy through the range with auto-calibration and auto-zero for every measurement. 1 mV measurement will be accurate within ±10 microvolts.
Instant Off IR drop edge delay	Configurable IR drop edge delay: 200 ms default
Configuration	Bullhorn Tools Mobile via Bluetooth low energy technology
Communications	SkyWave - Inmarsat satellite
Software Interface	Bullhorn Web Bullhorn Tools for IOS and Android
Battery or Optional Power Supply	Internal, field-replaceable primary and secondary batteries 5 year replacement when recording weekly measurements with weekly transmissions. Additional DC input voltage: 10-24 V DC or solar panel
Data Integrity	Data stored in nonvolatile (EEPROM) memory Queued two-way communication (communication to the RMU is queued in Bullhorn Web and is sent the next time the unit wakes up to transmit)
Dimensions	3.96" x 6.06"
Environment	-30° C to +60° C
Safety and Compliance	Certification mark: TUV Tested Safety Standards: CAN/CSA C22.2 No. 61010-1-2012 CAN/CSA C22.2 No. 61010-2-030:2012 UL61010-1:2012 UL61010-2-030:2012

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