

Application Bulletin: Remote Monitoring for Decouplers

Protect Your Assets and Personnel by Monitoring Decoupler Failures With RM4211



It's critical to recognize decoupler failures quickly in order to ensure that personnel and assets are protected from harm.

The RM4211's three high-voltage analog measurement channels are ideal for detecting and mitigating decoupler failures. Don't wait until a facility is inspected to know a failure has occurred: configure Bullhorn Web cloud software to notify you when there's a problem.



Powerful – Long-lasting battery life (up to five years) combined with satellite connectivity means the RM4211 can be used in very remote locations where cell signal and power sources are not available.



Accurate Measurements + Alarm Notifications – RM4211 measures with one percent of reading accuracy all the way through the range with auto-calibration and auto-zero for every measurement. Data is automatically uploaded to Bullhorn Web for diagnosis, monitoring and alarming.



Monitor More Than Decouplers – Since the device permits 3 analog measurements, you can monitor additional assets like coupons, reference cells and current transducers.

Ready to monitor decouplers?

Contact us at info@aiworldwide.com for pricing.

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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