

Find the Right Bullhorn for Your Test Stations

	SATELLITE		CELL	ULAR
	© Bullion Mark 10 Mark	© Bullion Redet 1	Bulhorn RM4250	© Bullhorn RIM4251
Click for Detailed Specifications:	RM4210	RM4211	RM4250	RM4251
Application	AC Monitoring	Test Point & Bonds	AC Monitoring	Test Point & Bonds
Analog Channels	5	3	5	3
Digital Channels	0	0	0	0
Typical Measurements	 ✓ AC Current Density ✓ DC Current Density ✓ Pipe-to-Soil ✓ Drain Current ✓ IR Free Instant Off 	✓ Pipe-to-Soil✓ Bond Negatives✓ IR Free Instant Off	 ✓ AC Current Density ✓ DC Current Density ✓ Pipe-to-Soil ✓ Drain Current ✓ IR Free Instant Off 	✓ Pipe-to-Soil✓ Bond Negatives✓ IR Free Instant Off
Interruption	No	No	No	No
Communication	Two-Way	Two-Way	Two-Way	Two-Way
Mounting	✓Test Head ✓Flat-Base	✓Test Head ✓Flat-Base	✓Test Head ✓Flat-Base	✓Test Head ✓Flat-Base
Surge Immunity	In-circuit Protection	In-circuit Protection	In-circuit Protection	In-circuit Protection
Power Source	Battery	Battery	Battery	Battery
Backup Power	Solar	Solar	Solar	Solar
Warranty	Standard	Standard	Standard	Standard
Download Datasheet	PDF 人	PDF 人	POF	PDF



Bullhorn RM4210 Specifications

INPUTS

AC current density, DC current

density,

Readings: AC pipe-to-soil, DC pipe-to-

soil, PCR

AC current drain or voltage,

instant off

DC Voltage Range: ±100 V

AC Voltage Range: 0 - 100 V

AC Current Range: 0 - 200 mA

 $\textbf{Imput Impendance} \hspace{15mm} \textbf{10} \hspace{1mm} \textbf{M} \boldsymbol{\Omega}$

Channel-to-channel isolation ≥ 200 V DC

INSTANT OFF

IR Drop Edge Delay: IR drop edge delay: 200 ms

CONFIGURATION

Bullhorn Tools Mobile via Bluetooth Low Energy

SOFTWARE INTERFACE

Bullhorn Web

Bullhorn Tools for IOS and

Andriod

COMMUNICATIONS

Satellite: IsatData Pro Satellite (Inmarsat)

POWER SUPPLY

Internal, field-replaceable primary and secondary batteries

3-7 year life when recording measurements hourly or daily with

weekly transmissions

Additional solar or DC input voltage: 10-24 V DC

DIMENSIONS

RM4210 Ø 6.06" x 3.96" H (8.22" H with

test station adapter)

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)

ENVIRONMENTAL SPECS

Temperature -30° C to +60° C

SAFETY AND COMPLIANCE

Certification Mark	TUV
	CAN/CSA C22.2 No. 61010-1- 2012
Tested Safety Standards	CAN/CSA C22.2 No. 61010-2- 030:2012
	UL61010-1:2012
	UL61010-2-030:2012







Bullhorn RM4211 Specifications

INPUTS	
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 autocalibration and auto-zero for every measurement. 1 mV measurement will be accurate within ±10 microvolts
DC Voltage Range:	±100 V
AC Voltage Range	0-100 V
Imput Impendance	10 ΜΩ
Channel-to-channel isolation	≥ 200 V DC
INSTANT OFF	
IR Drop Edge Delay	Configurable IR drop edge delay: 200 ms default
Logic Levels	minimum Logic 1 = 2 V; maximum Logic 0 = 800 mV
Scan Rate	16 scans per second
Accumulator maximum cycle rate:	1 cycle/2 s
Minimum state change period:	1 s
Minimum pulse width:	250 ms
CONFIGURATION	
Bullhorn Tools	via Bluetooth Low Energy
SOFTWARE INTERFAC	E
Bullhorn Web	
Bullhorn Tools for IOS and Andriod	
COMMUNICATIONS	

IsatData Pro (Inmarsat)

POWER SUPPLY	
Internal Battery	Field Replaceable Primary and Secondary Battery
Additional Power Input:	10-24 V DC Input
	Solar Panel
DIMENSIONS	
RM4211	Ø6.06" x 3.96" H (8.22" H with test station adapter)
DATA INTEGRITY	
Memory	EEPROM 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)
ENVIRONMENTAL S	PECS
Temperature	-30° C to +60° C
SAFETY AND COMPLIANCE	
Certifcation Mark:	TUV
Tested Safety Standards	CAN/CSA C22.2 No. 61010-1- 2012
	CAN/CSA C22.2 No. 61010-2-





Satellite

030:2012

UL61010-1:2012

UL61010-2-030:2012



Bullhorn RM4250 Specifications

INPUTS

AC current density, DC current

density,

Readings: AC pipe-to-soil, DC pipe-to-

soil, PCR

AC current drain or voltage,

instant off

DC Voltage Range: ±100 V

AC Voltage Range: 0 - 100 V

AC Current Range: 0 - 200 mA

Imput Impendance 10 $M\Omega$

Channel-to-channel isolation ≥ 200 V DC

INSTANT OFF

IR Drop Edge Delay: IR drop edge delay: 200 ms

CONFIGURATION

Bullhorn Tools Mobile via Bluetooth Low Energy

SOFTWARE INTERFACE

Bullhorn Web

Bullhorn Tools for IOS and

Andriod

COMMUNICATIONS

Cellular: LTE Cat-M Cellular (AT&T)

POWER SUPPLY

Internal, field-replaceable primary and secondary batteries

3-7 year life when recording measurements hourly or daily with

weekly transmissions

Additional solar or DC input voltage: 10-24 V DC

DIMENSIONS

RM4210 Ø 6.06" x 3.96" H (8.22" H with

test station adapter)

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)

ENVIRONMENTAL SPECS

Temperature -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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Bullhorn RM4251 Specifications

	Three analog measurements;
Readings:	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
DC Voltage Range:	±100 V
AC Voltage Range	0-100 V
Imput Impendance	10 ΜΩ
Channel-to-channel isolation	≥ 200 V DC

IR Drop Edge Delay	Configurable IR drop edge delay: 200 ms default
Logic Levels	minimum Logic 1 = 2 V; maximum Logic 0 = 800 mV
Scan Rate	16 scans per second
Accumulator maximum cycle rate:	1 cycle/2 s
Minimum state change period:	1 s
Minimum pulse width:	250 ms

Bullhorn Tools	via Bluetooth Low Energy
SOFTWARE INTERFA	CE

Bullhorn Tools for IOS and Andriod

CONFIGURATION

Bullhorn Web

INSTANT OFF

COMMUNICATIONS

Satellite IsatData Pro (Inmarsat)

POWER SUPPLY	
Internal Battery	Field Replaceable Primary and Secondary Battery
Additional Power Input:	10-24 V DC Input
	Solar Panel

22	
DM/211	Ø6.06" x 3.96" H (8.22" H with

DATA INTEGRITY	
	EEPROM

communication (communication to the RMU is queued in Memory Bullhorn Web and is sent the next time the unit wakes up to transmit)

test station adapter)

Queued two-way

ENVIRONMENTAL SPECS

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DIMENSIONS

RM4211

-30° C to +60° C

SAFETY AND COMPLIANCE

Certifcation Mark:	TUV
Tested Safety Standards	CAN/CSA C22.2 No. 61010-1-
	2012
	CAN/CSA C22.2 No. 61010-2-
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