



Surge hardened. For the most extreme environments.

The Bullhorn S Series stands up better than ever against intense surges in the field. Our American Innovations team put the units through intense testing conditions representing lightning strikes of up to 30,000 volts.

Flexible

Five channels give you flexibility to monitor and measure more components of the rectifier:

- AC and DC volts
- Pipe-to-soil potential
- Shunts
- Instant Off
- Accumulator

Unrivaled Warranty

Rest assured knowing we've got your back with an industry-leading manufacturer's warranty that covers you against all surge damage for three years.

Accurate

AC and DC voltage within one percent of reading accuracy throughout the range. Automatically calibrate and zero every measurement. Find and fix small problems before they become big ones.

Data Transfer

Cellular connectivity even in the most remote locations.

Integrated Compliance Solution

With filtered measurements easily imported into PCS™ Compliance Software through Bullhorn Web, you can easily convert your measurements into compliance reports.



Tested to withstand up to 30,000 volts

Bullhorn RM4150S / RM4151S Specifications

Inputs

5 Analog Channels (RM4151S has 2 analog channels)	
DC voltage range:	±150 V with accuracy of 1% of reading
AC voltage range:	150 V with accuracy of 1% of reading
Input impedance:	10 MΩ
Scan rate:	Once every 30 seconds
Channel-to-channel isolation:	≥ 250 V DC
Surge:	Survives multiple 30KV strikes. Tested using 50uS waveform to simulate lightning strike.

2 Digital Channels

Functions:	Digital input, accumulator, accumulator reset, or contact closure (0 - 24 V DC)
Minimum logic:	1 = 2 V
Maximum logic:	0 = 1 V
Scan rate:	20 scans per second
Minimum pulse width:	250 ms

Interruption

Switch Out channel	
Maximum current:	500 mA DC
Output voltage:	10-14 V DC
Minimum switching cycle:	1 s
On/off cycle increments:	100 ms
Interruption modes:	Daily, interference, start/stop, continuous, and Instant Off
Interference mode:	Set up to 99 rectifiers or groups for influence studies
Relay types:	NO or NC, solid state or mechanical

Instant Off

Analog channel 3:	± 10 V DC, sampled 60 times per sec
IR drop edge delay:	0 to 60 seconds in increments of 1 ms
Configuration:	GPS-synchronized measurement using configurable on, off, and delay settings

Communications

GSM cellular:	Worldwide compatibility on LTE cellular networks
USA:	Carrier independent. Automatically selects the best signal.
Poll, reconfigure, set alarm thresholds & update firmware over-the-air	

Software Interface

Bullhorn Web
Bullhorn Tools for PC

Power Supply

AC:	100 - 240 V AC with included AC/DC converter
DC:	10 - 14 V DC (9 - 36 V DC with optional external DC/DC supply)
Backup:	Internal sealed rechargeable battery

Dimensions

RM4150S/RM4151S:	Polycarbonate enclosure (5" x 2.25" x 8")
External mount (optional):	Aluminum Enclosure (7.3" x 4" x 12.4")
Part #: 517200-000	

Environment

Temperature:	-30° C to +70° C
Humidity:	0-95% non-condensing

Safety and Compliance

Emissions:	FCC Part 15
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