

INTERFERENCE, NO MORE!

RBand for Gates / RB-G-K10



Slide Gate Located at Clean Water Services Facility



COMPANY

Metro Access Control
Portland, OR

CUSTOMER SINCE

10+ Years

ABOUT

Metro Access Control, a division under Metro Overhead Door, is a leader in the automatic gate industry. Serving the Portland/Metro area, Metro Access provides 24-hour emergency service to automatic gates and access controls.

PROJECT OVERVIEW

Metro Access Control installed two HySecurity slide driver operators on two gates at Clean Water Services in Hillsboro, Oregon; the entry/exit gates located at a storage facility for service trucks accessibility. Located close to an airport runway, the air traffic interferes with communication between the transmitters and receivers, causing the gates to not function as needed.



Aerial view of nearby Hillsboro Airport Source: portofportland.com

THE CHALLENGE

In 2018, Brad Naish, licensed Controls electrician, reported there were timing issues on the communication between HySecurity operator and the wireless system that was originally installed. Due to the radio frequency (RF) interference and range issues, the operator would go into safe mode after a delayed response from the transmitters.

THE SOLUTION

Miller Edge provided Metro Access Control with the newly enhanced version of RBand, offering improved RF immunity through software

(continued on page 2)

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THE SOLUTION (CONTINUED)

upgrades, and variable signal power output based on environment interference levels. These enhancements allowed the units to ignore RF noise and focus on receiver and transmitter communications seamlessly.

THE RESULT

Two years after the installation of the enhanced RBand, the operator does not go into Safe Mode due to RF interference and the slide gate continues to open/close reliably when vehicles approach to enter/exit the facility.

“Absolutely, I’d recommend to other gate installers! I have not seen a timing issue since [the install].”
-Brad Naish, Controls Electrician

The timing issue has also been resolved by transmitter and receiver communicating every five seconds, continuously “checking in.” Naish was able to see, first hand, through special diagnostic tools the signal reliability was greatly improved.

ABOUT THE PRODUCT

RBand enhancements made in 2018 include improved RF immunity, ability to self-assess and increase power output depending on the RF interference levels, and shortened response timing, resulting in exceptional synchronization with all gate operator brands.

PROJECT SPECS OVERVIEW

- RBand for Gates
- Ground Loops
- Photo Eyes
- (6) ME120 10K Sensing Edges



RB-G-K10: receiver with antenna and transmitter



Kevin Ward, Miller Edge Senior Technical Product Manager presents data showing communication between transmitter and receiver in real time.



ABOUT MILLER EDGE

For over 70 years, Miller Edge has been the leading manufacturer of the most positive emergency stopping devices for motor-driven doors and gates. Our manufacturing capabilities include; a complete line of Industrial Safeguarding products for perimeter, area, and machine guarding. We fabricate both rigid and flexible PVC custom extrusions to customer specifications. Please visit us at www.milleredge.com for more information.