



TECHNICAL NOTE TNDA15

Title: Erratic Counting on a Red Lion Counter

Product(s): All Red Lion Counters

If you are experiencing erratic counting on your Red Lion Controls counter, more than likely what you are seeing is commonly called “chatter” on the input of the counter. The result of chatter is usually seen as excess counts being registered by the counter when it should have only received a single count from the input device. This chatter is usually caused by the natural bounce of a mechanical relay between the contacts and is detected by the counter because of the sensitivity of the input. Another common cause of this chatter can be electrical noise that can be transmitted to a DC line located too close to an AC line. Be sure your DC lines are separated from your AC lines by a minimum of 3 inches.

Most Red Lion counters have built in filters that can be programmed in the unit to eliminate this problem. Others have separate inputs for low and high speed count rates, dip switches to adjust the amount of filtering, or a filter terminal that can be connected to the units common terminal to add the required filtering. Refer to the product data sheet or instruction manual to determine which type of filtering your unit has and how to adjust the desired amount of filtering. If your unit does not have built-in filtering, you should use an external filter prior to the input of the counter. If you cannot find information on filtering in the product data sheet or instruction manual, contact Technical Support at 1-800-677-7880 or e-mail at technicalsupport@redlion.net