



The Red Lion RAM Cellular Modems have a powerful "Event Engine" built-in to the unit along with a large set of Modbus TCP registers to monitor and/or send out information.

In the example explained in this application note, we demonstrate a simple, but powerful feature of the "Event Engine":

How to control the level of water in a fish tank?

The same principle can be used for a municipal tank level, flow, pressure, temperature, or to a stirrer.

Why would you event think of using a Cellular Data Modem?

- Telephone lease line finally dies. Now, an operator has to drive out to the location to check. Overtime, waste of resources.
- Cannot use a License Free radio because of the topology of the site. Lots of trees nearby. Residents in the area object to a radio tower.
- No need for a PLC or indicator to display and control the level.
- Built-in SMS text messaging to 99 numbers to send an alert and to let you know when everything is back to normal.

- Instant reading of the tank level on your cell phone.
- Works when the power goes out your cell modem is connected to a small UPS. The Cellular network towers run on backup generators your cell phone has a battery that will probable last for the duration of the outage.
- Intrusion detection.
- Nobody knows how to setup this account with Verizon or AT&T. Neal Systems has been helping Municipalities with setting up accounts for 15 years. We have the knowledge, contacts and experience to make the whole process seem like "magic".
- What about security? Can this device be hacked? The Red Lion Cellular Modems have some of the most powerful, state of the art, up to date firewall protections available anywhere.
- It is too expensive. A typical installation with an enclosure installed and operational is less than \$ 2,500
- Too expensive to run not true. Typical monthly charge is \$20.00 per modem per site under Verizon Wireless or AT&T State Pricing Plans.
- Costs less than the typical \$ 100 \$ 120 per month lease line rental that keeps failing and takes forever to be repaired.



www.nealsystems.com (215) 968-7577 sales@nealsystems.com