



Whiz Bang Technologies Inc

"evolutionary to revolutionary"

Michael Cogill- Owner
mpcogill@telus.net
403-462-1857

August 27, 2015

Nemko Canada Inc
303 River Road
Ottawa
K1V 1H2
Canada

Differences between “sensor” and “repeater” models

The **sensor (figure 1 below)** is a simple compact water sensor circuit that automatically turns on a radio transmitter (nRF24L01+) and sends a coded signal over a discrete frequency (2468 MHz) on the ISM band, when the contacts get wet. It is battery powered by 2x 2032 primary lithium batteries and is only on when the sensor is wet.

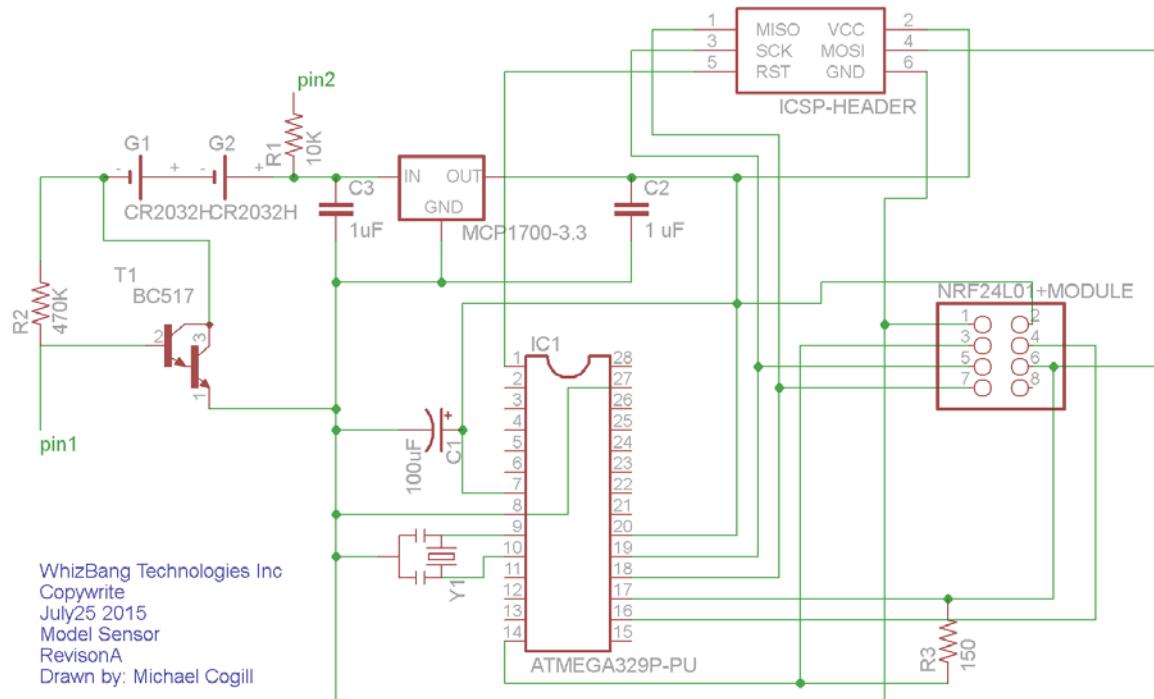


Figure 1-Schematic drawing of Sensor



The **repeater (figure 2 below)** is a simpler version of the exact same parts as the sensor. The two circuits have identical RF performance and RF components.

The Repeater is a simpler (fewer parts- no switching or power regulation) version of the sensor. It is powered by an AC adaptor and remains in receive mode until it detects a transmission from a sensor. The device then switches to transmit mode to transmit an equivalent sensor signal to the receiver. The repeater demodulates the received signal and re-modulates the signal that it sends out. It does not remain in the send mode but returns to receive mode after a brief time period.

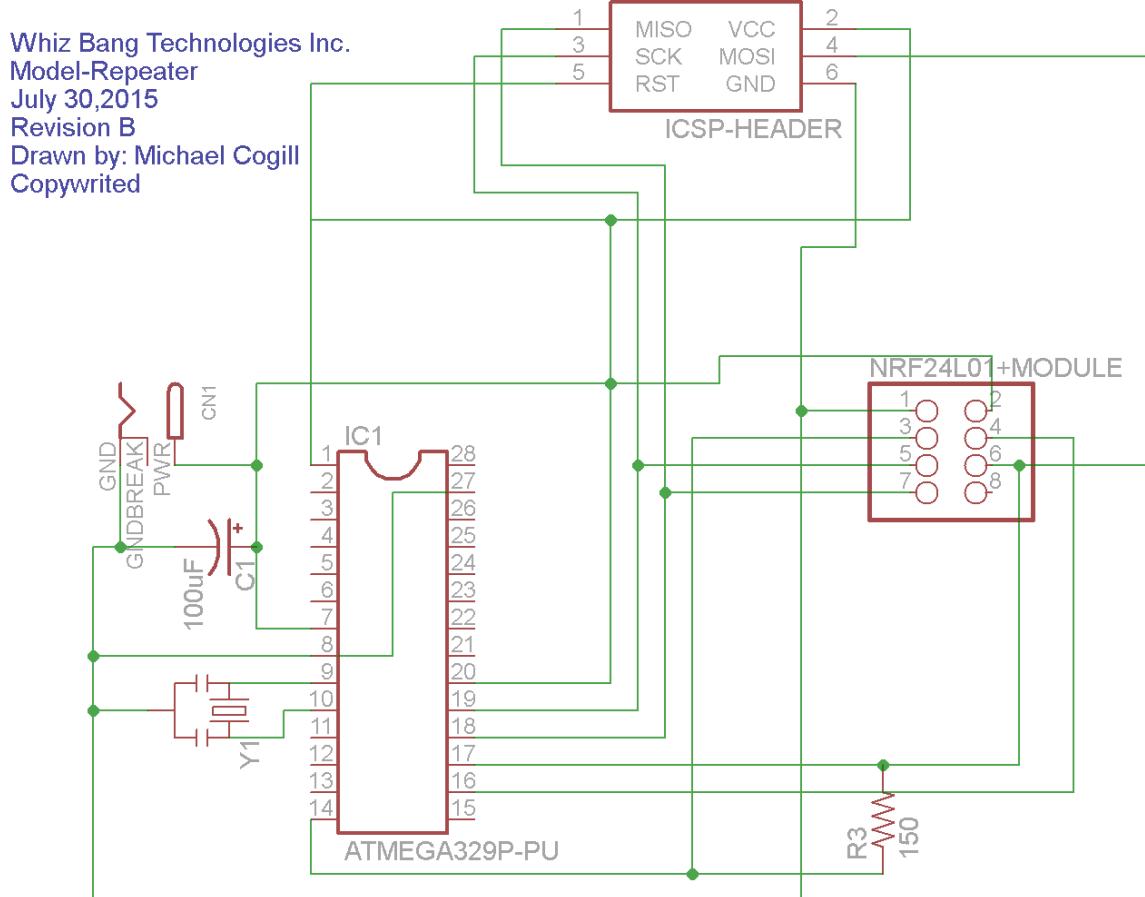


Figure 2-Schematic drawing of Repeater



Whiz Bang Technologies Inc
"evolutionary to revolutionary"

Michael Cogill- Owner
mpcogill@telus.net
403-462-1857

Dated this 27th *Day of* August 20 15

M. Cogill
By: _____ *Signature* Michael Cogill *Printed*

Title: Owner

Telephone: 403-462-1857

Applicant: Whiz Bang
Technologies Inc