Description:

This Neptune water meter is located in a pit. It is wired to a R900 drive by reader.
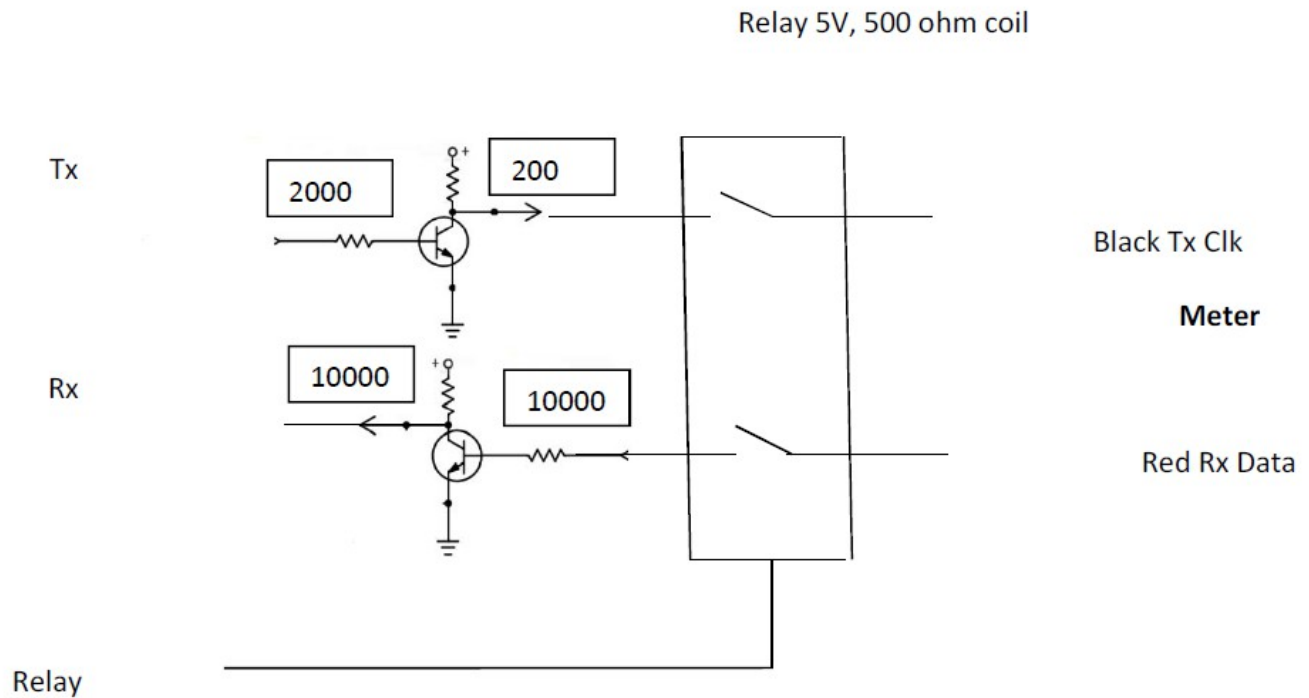
I tapped into the wires going from the meter to the R900 RF transponder as per the Neptune instructions document enclosed (Doc #1).

The tap wires were 26 Gauge telephone cable 20 to 25 feet long terminated in a RJ45 connector. The mating connector was mounted to the Arduino proto shield board holding the isolation circuit.

Isolation Circuit:

5V.

2N2222 Transistors

Relay 5V, 500 ohm coil

Relay (drive pin 8) needed for meter read by utility.

Transistors needed to isolate controller from meter.

There is also a green wire for ground hooked up.

The Tx, Rx, and Relay activation are Arduino Ethernet board interfaced.