# Fuel Log Pulse Output Details

The pulse output instrument produces a square wave DC signal with an approximate 50/50 duty cycle. Amplitude is determined by "Pull-Up" resistor value.

1K = 8.7 VDC
5K = 6.9 VDC
10K = 6.5 VDC
50K = 5.8 VDC
100K = 5.4 VDC

The pulse output signal must be fed into a high impedance device, (frequency counter) etc. Current draw is negligible, about 5 to 10 micro amps @ 1Meg.

If fuel consumption is 1 liter per hour, the pulse output signal is 1000 pulses per hour or 0.278 pulses per second. If consumption were 100 liters per hour, the pulse output signal is 100,000 pulses per hour or 27.778 pulses per second. With a 50/50 duty cycle wave form, one complete wave form cycle is about 0.036 seconds. Time between the bottom of the previous previous pulse and the start of the next pulse is about 0.018 seconds, (18 milli seconds) at 100 liters per hour.