I am writing this quick article due to the confusion which is often seen when speaking of the cooling systems sensors. There are three sensors in the LT1 Cooling system:

1. Engine Coolant Level Sensor. This sensor only sends a signal to the light on the instrument panel to illuminate the low coolant indicator lamp. Below is a picture of where this sensor is located. This is a picture of the front of the engine, from a passenger side angle, although kind of hard to tell:

As you can see, the engine coolant level sensor is located on the radiator, next to the battery. If your low coolant light stays on even though you know it’s full, you need to replace this sensor.
2. Next is the Coolant Temperature Gage Sensor, which sends the engines temperature to your coolant temperature gage on the instrument cluster. If your temp gage does not work, this is probably the reason why.

3. And finally, the important one which can cause many problems if its malfunctioning. The Engine Coolant Temperature Sensor is the sensor which supplies the PCM with coolant temp information. If this sensor is faulty, it can cause many drivability problems with your car, but the most common is hard starting. It’s located on the front of the water pump.