A screenshot of a computer

Description automatically generated

***Picture Explanation on Second Page***

A = Alarm: Binary/Boolean if the alarm is able to make sound (1) or not (0).

FA = Faulty Alarm: Binary/Boolean if the alarm is faulty (1) or not (0).

FG = Faulty Gauge : Binary/Boolean if the gauge is faulty (1) or not (0).

G = Gauge reading): Multivalued, represents the reading of the gauge.

T = Core temperature: Multivalued, represents the actual temperature of the core.

The reading of the gauge (G) depends on the actual core temperature (T) and whether the gauge is faulty (FG). ***There possibly could be a faulty gauge of a lower reading due to the heat rising super-fast and breaking the gauge, or over time the heat is so constant that the gauge gets used to the sensor sending a range of data (it would depend on the kind of gauge that’s being used as well)***. The alarm (A) then depends on the gauge reading (G) and whether the alarm itself is faulty (FA).

The gauge reading is ***the most important part*** of all of this, as everything hinges off the gauge working and reading accurately.