**Fault Probability Table Description**

* The Fault Probability Table is an essential input to the sensor inaccuracy analysis module
* The table is located in the root directory of the repository and is named: “/sensor\_fault\_probability\_table.csv”
* An example of the table is shown below:

Table

Description automatically generated

* The first column “sensor\_type” contains a string defining the sensor type. These strings map to the sensor type dictionary in config.json. If changes are made here, the same changes need to be made in config.json.
* The “general fault probability” indicates the overall fault rate for each sensor type. This is the combined fault rate for all possible fault types (failure, bias, drift, precision).
* The latter four columns (failure, bias, drift, precision) indicate the conditional probabilities of specific sensor fault types occurring when a fault occurs for each sensor type. The values in these four columns must sum to 1 within each row (sensor type). The actual probability of a particular fault type occurring for a particular sensor type is equal to the general faulty probability for that sensor type multiplied by the conditional probability of that fault type and sensor type combination (e.g., the probability of an electricity meter drift fault would be 0.33 \* 0.25 = 0.08, given the data in the table above).