calcualte_drift_rate

Here is a MATLAB function that reads Kitronyx log data and calculates the drift (rate of change) over time:

FolderTree

```
calcualte_drift_rate
|   README.md
|   README.pdf
|
+---res
|       MatLABSampleResult.png
|
+---sample
|   |   calcualte_drift_rate.m
|   |   main.m
|   |   read_converted_logfile_1D_data.m
|   |
|   \---converted_log_data
|           Drift_AdcData-1d.csv
|           Drift_AdcData-2d.csv
|
\---src
        calcualte_drift_rate.m
```

MATLAB

Version: R2023b Update 7 (23.2.0.2515942) 64bit January 30, 2024

Code Description

```
calcualte_drift_rate.m
    - MATLAB file containing a function to calculate drift rate for all log
data
    - Returns [drift_rate, driftInfo] when given a drift value and drift
information struct.
    - drift infomation struct format example:
        - driftInfo.timeStart
        - driftInfo.timeEnd
        - driftInfo.adcBegin
        - driftInfo.adcEnd
```


Drift start time: 1, Drift end time: 7488.03, Drift start ADC: 76, Drift end ADC: 80
Drift rate of all log:1.3585 %log10time
>>
driftInfo
PLOTS
VARIABLE
VIEW
New from Selection
Open
Print
Rows
Columns
Insert Field
Delete Field
Transpose
Sort
VARIABLE
SELECTION
EDIT
1x1 struct with 4 fields
Field
Value
timeStart 1
timeEnd 7.4880e+03
adcBegin 76
adcEnd 80
Name
Value
driftInfo 1x1 struct
driftRate 1.3585
measuredCol 66