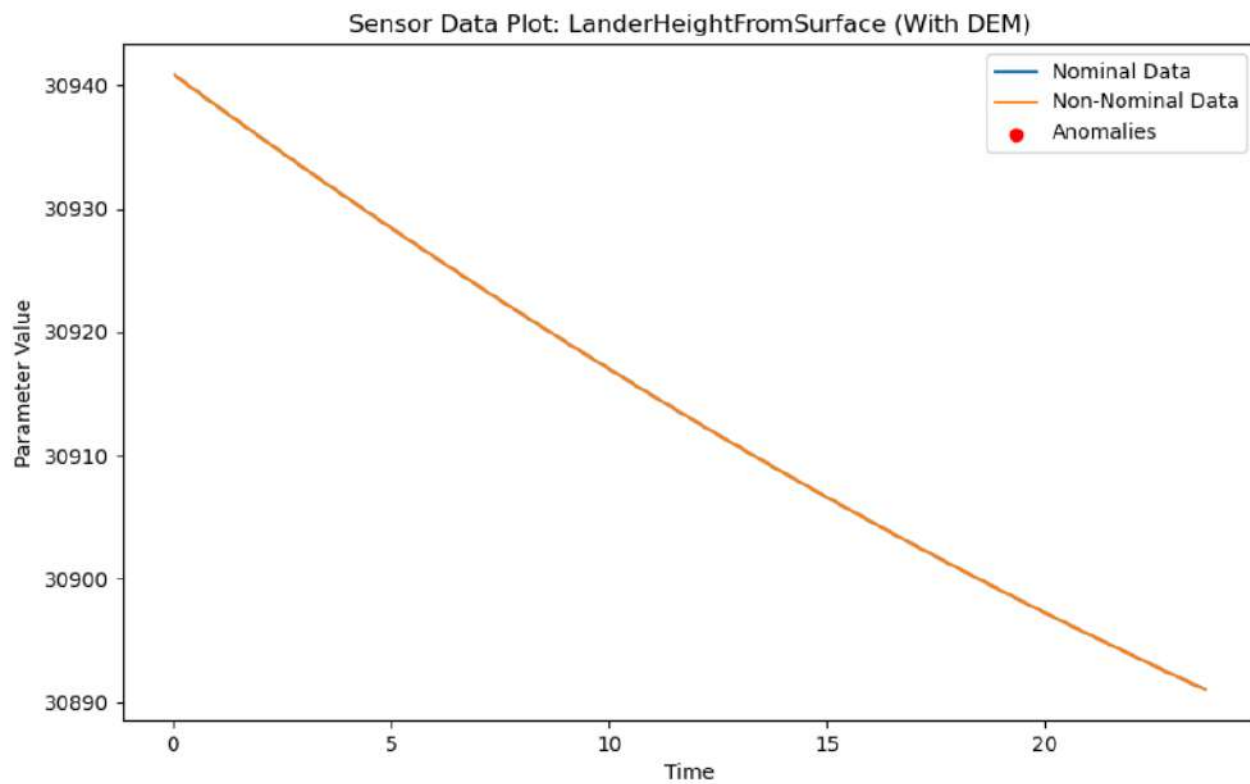
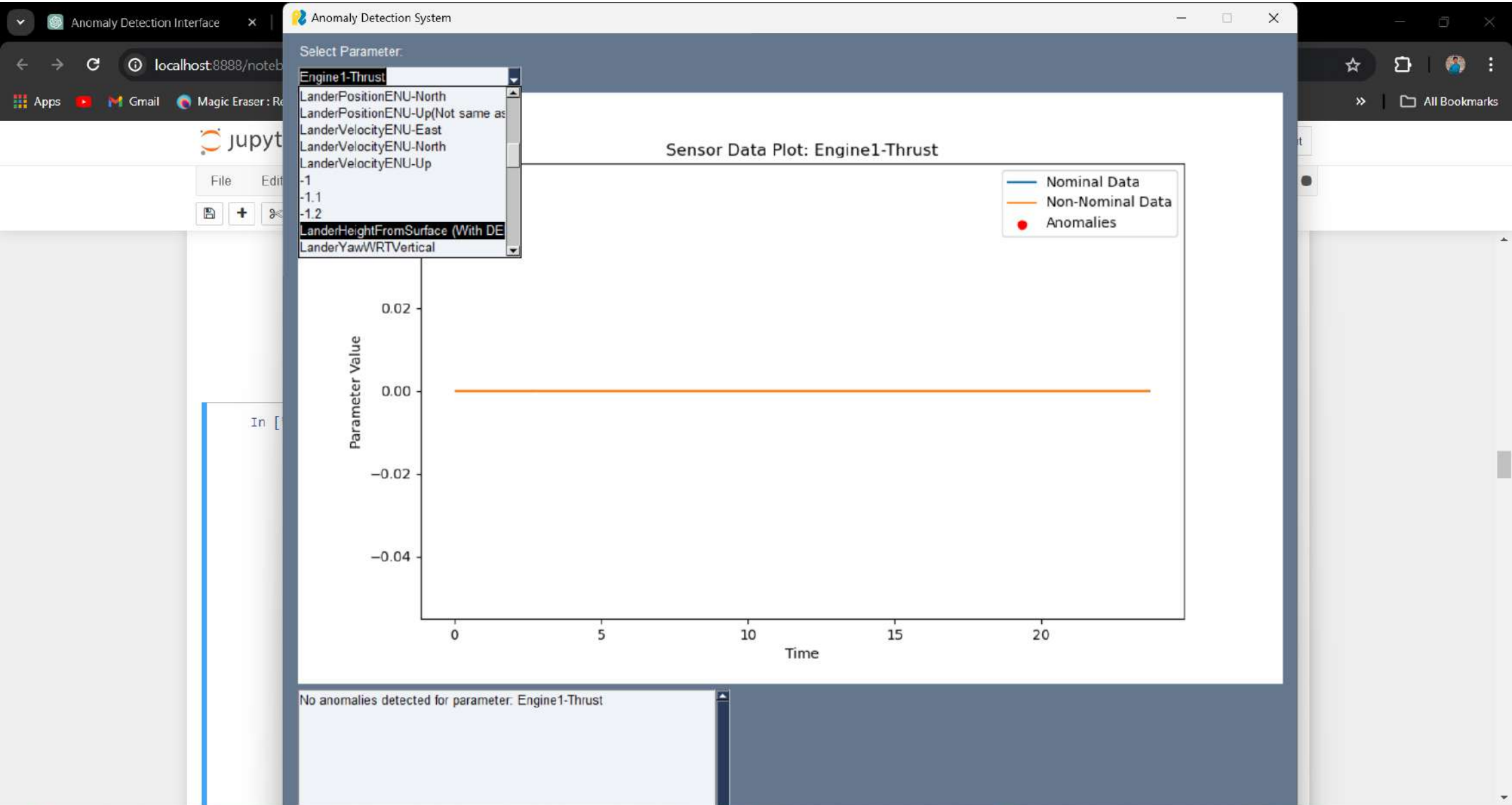


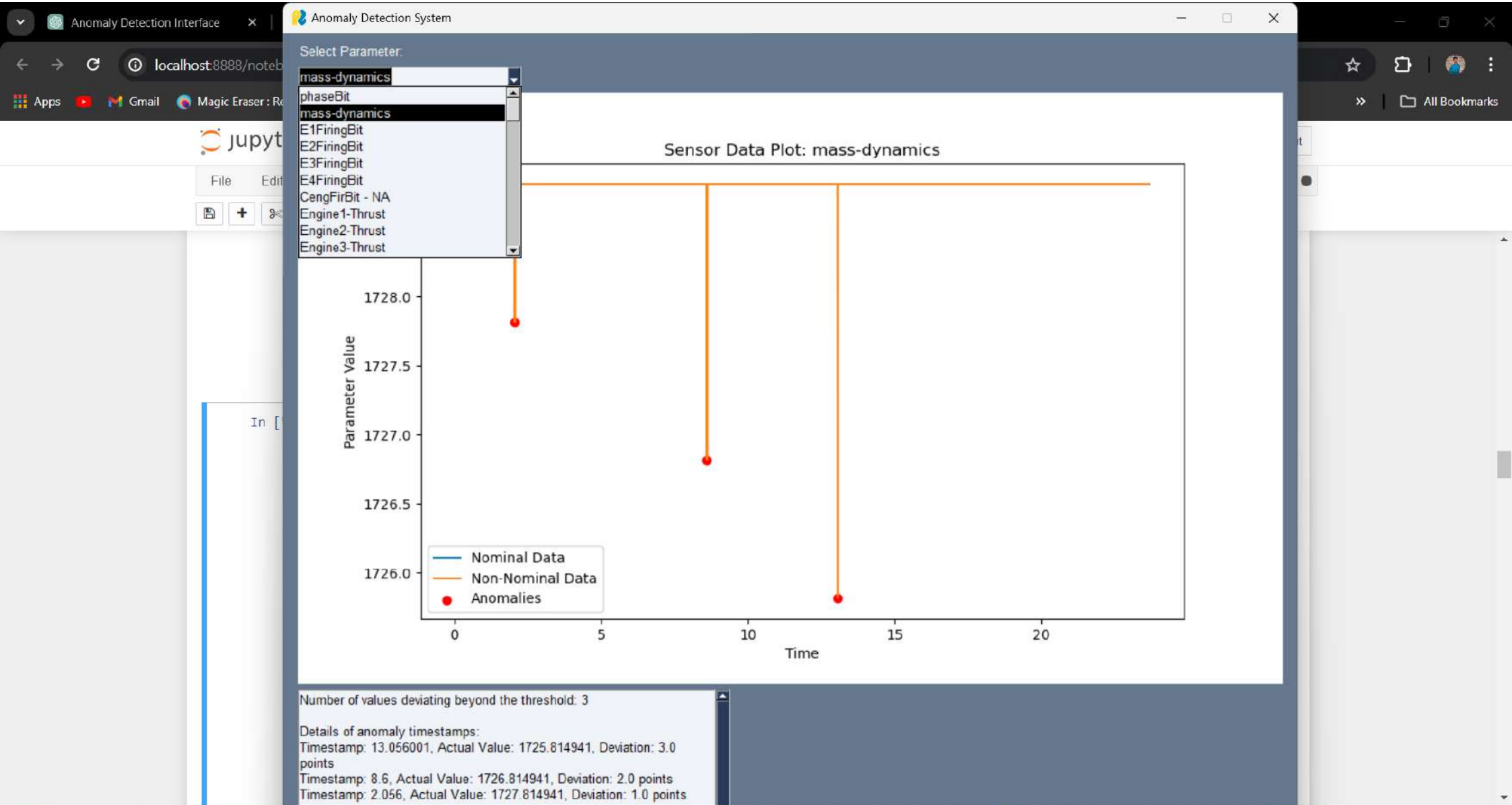
Select Parameter:

LanderHeightFromSurface (With DEM)

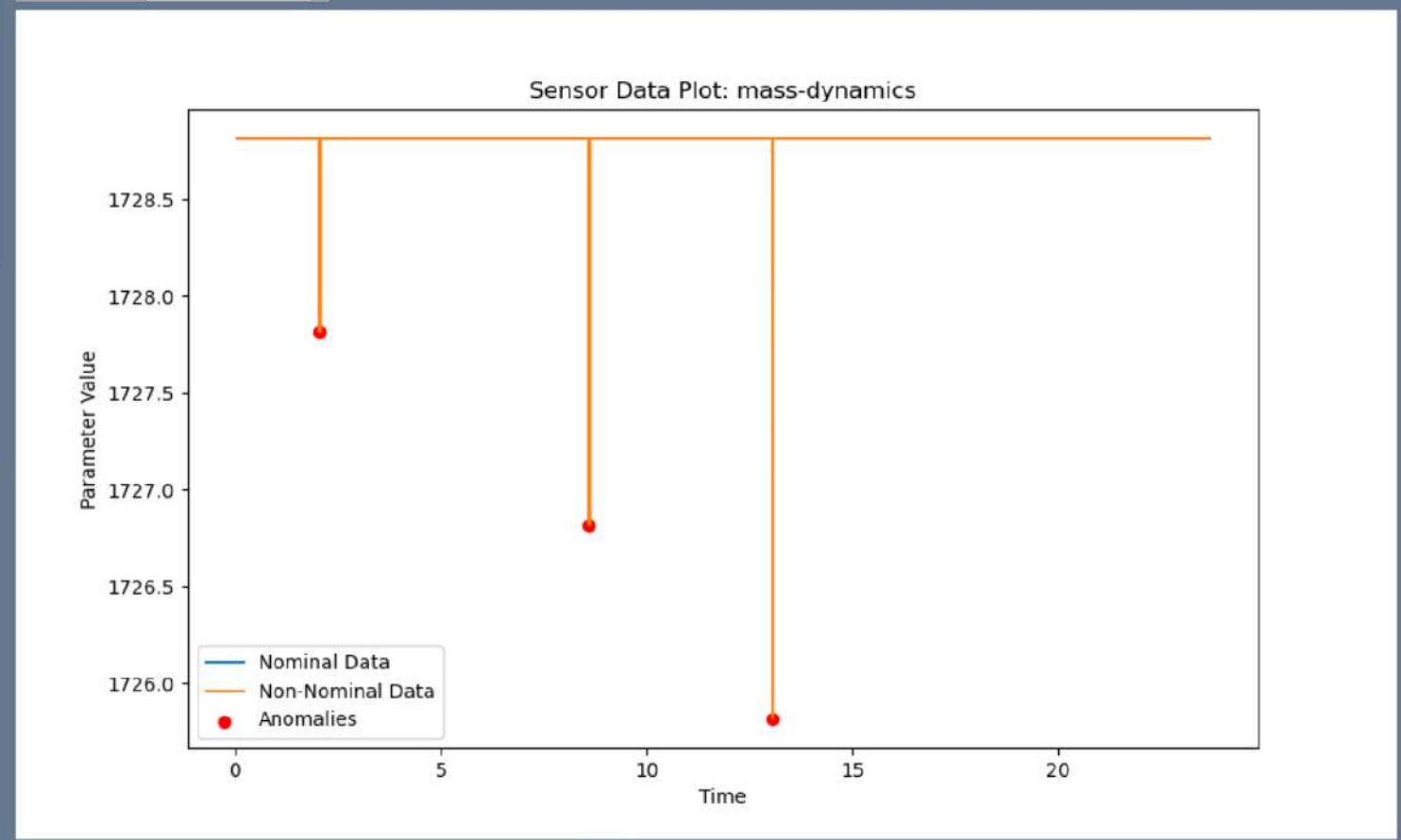


No anomalies detected for parameter: LanderHeightFromSurface (With DEM)





Select Parameter:  
mass-dynamics



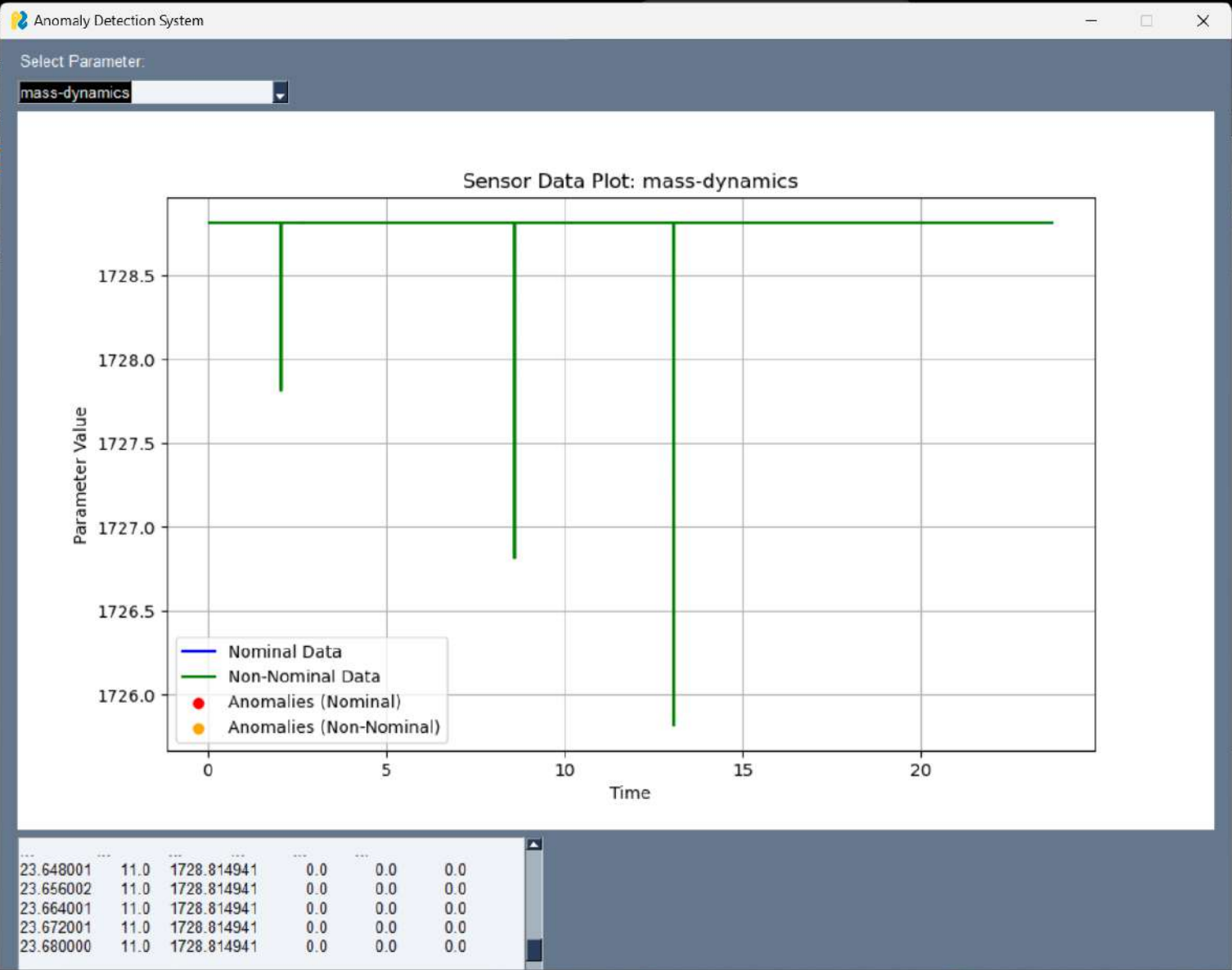
Number of values deviating beyond the threshold: 3

Details of anomaly timestamps:

Timestamp: 13.056001, Actual Value: 1725.814941, Deviation: 3.0 points

Timestamp: 8.6, Actual Value: 1726.814941, Deviation: 2.0 points

Timestamp: 2.056, Actual Value: 1727.814941, Deviation: 1.0 points



Logout

(ipykernel)

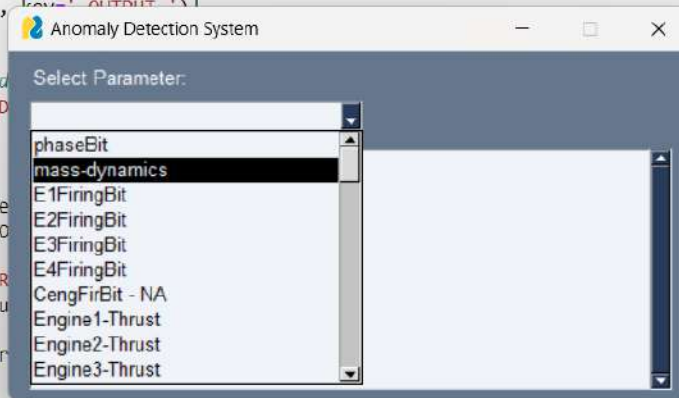


```
layout = [
    [sg.Text("Select Parameter: ")],
    [sg.Combo(values=list(nominal_data.columns), key='-PARAMETER-', size=(30, 1), enable_events=True)],
    [sg.Image(key='-PLOT-')],
    [sg.Output(size=(60, 10), key='-OUTPUT-')]
]

# Create the PySimpleGUI window
window = sg.Window("Anomaly Detection System")

# Event Loop
while True:
    event, values = window.read()
    if event == sg.WINDOW_CLOSED:
        break
    elif event == '-PARAMETER-':
        selected_param = values['-PARAMETER-']
        if selected_param:
            plot_selected_param(selected_param)

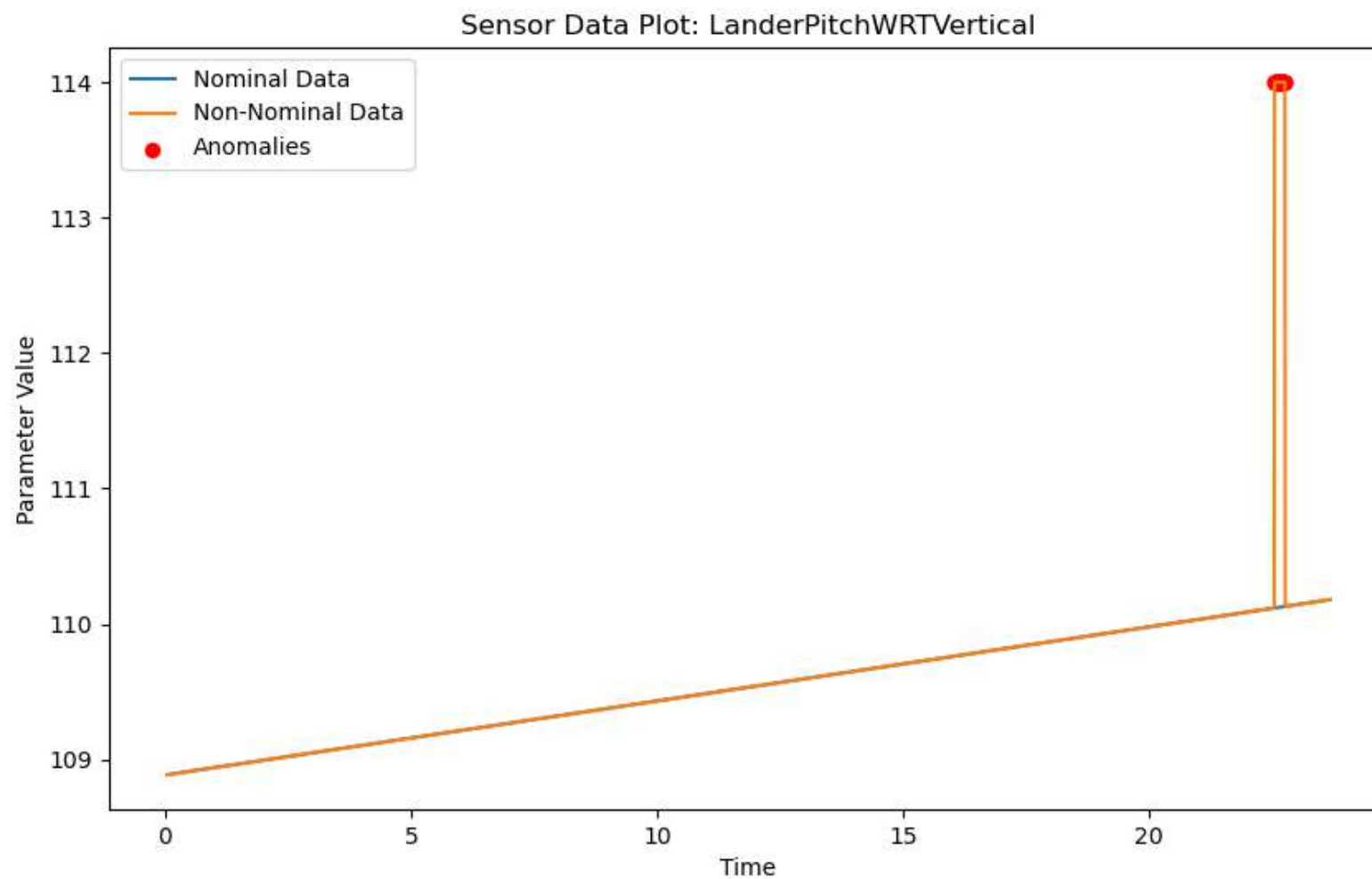
window.close()
```



```
Epoch 1/5
93/93 [=====] - 2s 2ms/step - loss: nan
Epoch 2/5
93/93 [=====] - 0s 2ms/step - loss: nan
Epoch 3/5
93/93 [=====] - 0s 2ms/step - loss: nan
Epoch 4/5
93/93 [=====] - 0s 2ms/step - loss: nan
Epoch 5/5
93/93 [=====] - 0s 2ms/step - loss: nan
```

Select Parameter:

LanderPitchWRTVertical



Number of values deviating beyond the threshold: 27

Top 3 anomalies (index, actual value, deviation):

Index 22.552002: Actual Value: 114.0, Deviation: 3.8809799 points

Index 22.560001: Actual Value: 114.0, Deviation: 3.8805423000000002 points

Index 22.568001: Actual Value: 114.0, Deviation: 3.8801066000000005 points