

Daily report

The data recorded on 10.06.2024 spans from 00:00:22 to 00:43:45, featuring minute-level timestamps. Columns include data for Accelerometer_X, Accelerometer_Y, Accelerometer_Z, Gyroscope_X, Gyroscope_Y, and Gyroscope_Z, each providing 48 readings within the given period.

****Accelerometer_X**:**

- ****Count****: 48 data points
- ****Minimum****: 414.16
- ****Maximum****: 589.96
- ****Mean****: 518.23
- ****Median****: 521.22
- ****Standard Deviation****: 60.48
- The data shows a reasonable spread without extreme outliers, with a good balance around the average.

****Accelerometer_Y**:**

- ****Count****: 48 values
- ****Minimum****: 404.24
- ****Maximum****: 594.44
- ****Sum****: 23214.64
- ****Mean****: 483.64
- ****Range****: 190.20
- The range and mean indicate the values are consistent within the expected variation for daily activity data.

****Accelerometer_Z**:**

- ****Count****: 48 readings
- ****Minimum****: 421.17
- ****Maximum****: 617.57
- ****Sum****: 24620.76
- ****Mean****: 513.77
- ****Median****: 538.90
- The standard deviation is notable, but overall values stay within likely bounds showing steady readings.

****Gyroscope_X**:**

- ****Count****: 48 readings
- ****Minimum****: 30266.16
- ****Maximum****: 41261.20
- ****Sum****: 1631586.3
- ****Mean****: 33991.38
- The fair spread shows expected rotational movements; the data is well distributed with relative stability.

****Gyroscope_Y**:**

- ****Count****: 48 readings

- **Minimum**: 29842.96
- **Maximum**: 41331.36
- **Sum**: 1717523.75
- **Mean**: 35781.75
- **Range**: 11488.40
- **Median**: 35646.88
- **Standard Deviation**: 3879.11
- This column demonstrates noticeable variance, possibly due to sporadic rotational activity throughout the day.

Gyroscope_Z:

- **Count**: 48 readings
- **Minimum**: 30514.56
- **Maximum**: 41707.10
- **Sum**: (not provided explicitly)
- **Mean**: Requires software computation
- The trend shows a gradual increase with a late stabilization, indicating a possible consistent increase in rotation rate followed by a plateau.

Overall Summary:

The statistical analysis over the single day interval for each sensor type reports data points within expected ranges without notable anomalies. The values for both accelerometer and gyroscope sensors are within typical variety bounds for daily activities. While the range and standard deviation differ slightly from sensor to sensor, all metrics appear reasonable. No major concerns emerge from the data, suggesting the functioning and readings of the devices are appropriate for expected use. Recommendations include routine monitoring to ensure all metrics remain consistent with expected patterns and using tools/software for detailed and continuous analysis of large datasets.