

# Fundamental Diagrams – Selected Results

## Overview

This PDF shows two selected examples of the best agreement between the triangular fundamental diagram and observed traffic data. The model uses common parameters and illustrates a clear peak near the critical density, with scatter in the congested branch.

## Comments

- Sensors **E4S 55 620**, **E4S 56 160**, and **E4S 58 140** show a clear peak and reasonable linear decrease in the congested branch.
- The scatter indicates sensor/day variations and that parameters may need calibration per sensor.

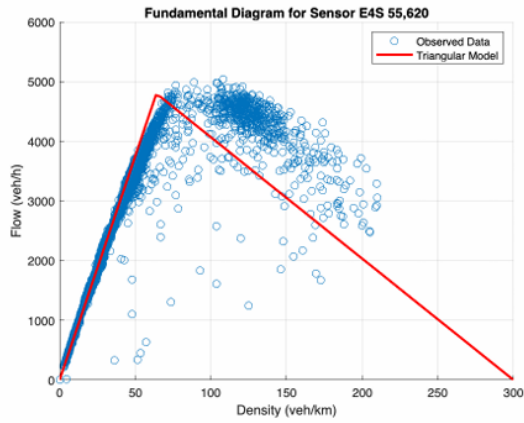


Figure 1: Fundamental triangular diagram against observed data for sensor E4S 55,620.

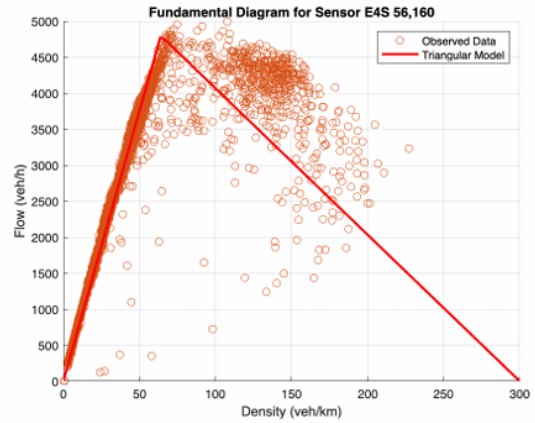


Figure 2: Fundamental triangular diagram against observed data for sensor E4S 56,160.

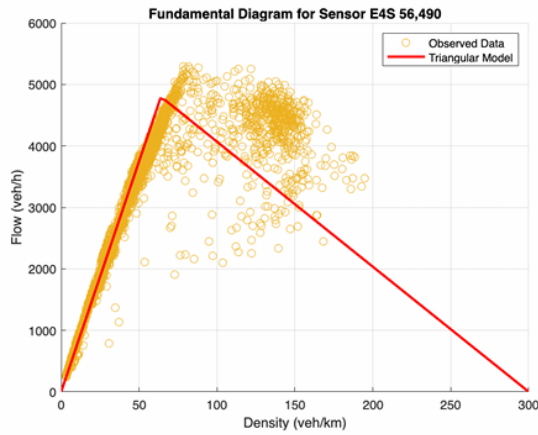


Figure 3: Fundamental triangular diagram against observed data for sensor E4S 56,490.

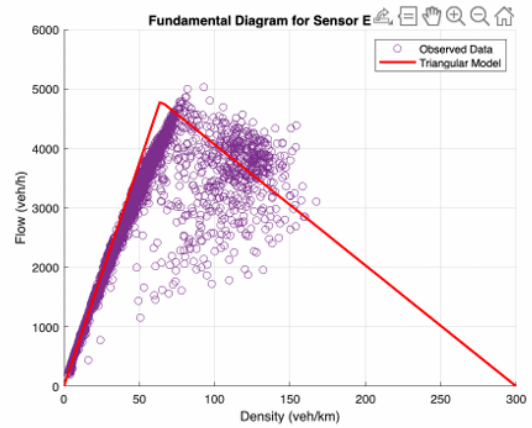


Figure 4: Fundamental triangular diagram against observed data for sensor E4S 56,780.

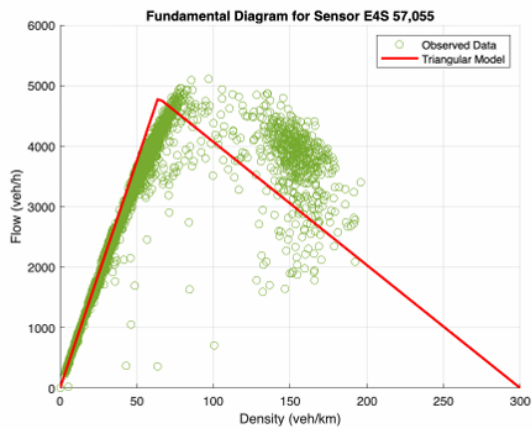


Figure 5: Fundamental triangular diagram against observed data for sensor E4S 57,055.

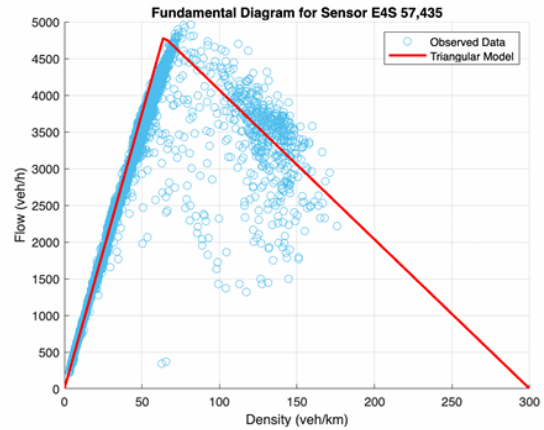


Figure 6: Fundamental triangular diagram against observed data for sensor E4S 57,435.

Figure 1: Selection 1: Fundamental diagrams for several sensors (E4S 55 620, 56 160, 56 490, 56 780, 57 055, 57 435).

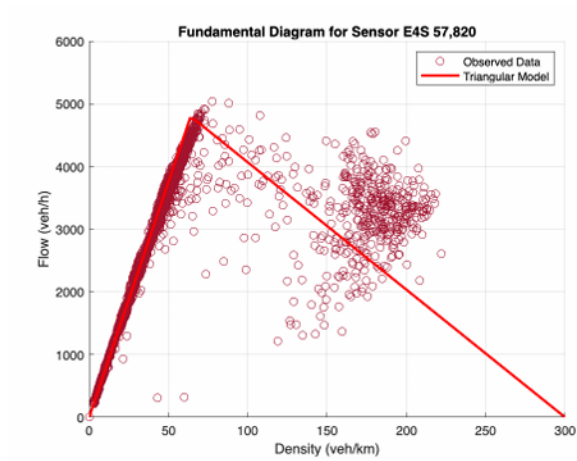


Figure 7: Fundamental triangular diagram against observed data for sensor E4S 57,820.

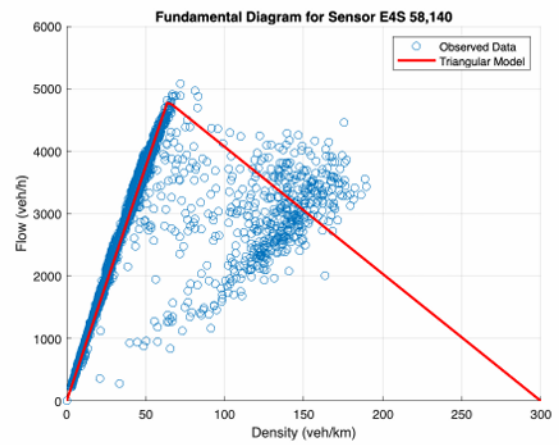


Figure 8: Fundamental triangular diagram against observed data for sensor E4S 58,140.

Figure 2: Selection 2: Fundamental diagrams for sensors E4S 57 820 and E4S 58 140.