W4LRM

Ramp Metering Software

DESCRIPTION

The LRM in W4LRM stands for Local Ramp Metering. This program was designed to control the flow of traffic onto a freeway. The basic idea behind that being, that if you can keep the average speed of the freeway up, you will move more traffic. Besides controlling the traffic on the ramp, the program also has features for extensive data collection both on the ramp and the freeway lanes (speed, volume, occupancy and length).

The W4LRM can handle up to (3) three ramp lanes, one of which can be configured as an HOV bypass or a regular ramp. The HOV bypass lane can be run sequentially with the other lane(s) or toggled, so that the HOV gets every other green. The W4LRM can collect traffic data up to (6) six lanes on the mainline (freeway, merge, or exit lanes) and collect volume up to (6) six lanes on the ramps. The W4LRM can have up to 23 bins and 3 groups for vehicle length identification (Freeway, add , and exit lanes).

FEATURES

- 10 fixed rate plans with seperate red time for auto or fixed mode
  - Some of the features included in each plan are :
    - HOV extension time for SOV lanes
    - Violation extension time
    - Truck extension capability for each metered lane
    - Minimum red time
    - Red and green interval times for both SOV and HOV lanes
- Operator set start up color and time.
- Separate loop spacing and loop width settings for each lane.
- Queue monitoring
- Merge incident detection
- Freeway incident detection
- Emergency Vehicle (EV) pre-emption
- Input triggered - Timed outputs
- Exit ramp monitoring
- Auto plan selection using occupancy or vehicle density
- Detector diagnostics
- Vehicle Length collection bins
- Time of year events
- Input / Output pin re-assignment
- Command box