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The Wireless Vehicle Detector Receiver

User Manual

Release Date	Version	Author
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1. Application

- Traffic data collection
- Vhicle flow detection, Vehicle speed detection, Traffic occupancy, Analysis of Vehicle Type

2. Product Description

Wireless Vehicle Detection Receiver and Wireless vehicle detector, Wireless Vehicle Detector Communications Relay maintain two-way wireless communication, establishing time synchronization,sending configuration commands, confirming message, and receives aggregate data from the detector. Then, the receiver will transmit data to the nearby traffic controller or remote servers, and other devices. The device has different peripheral interfaces: RJ45, RS232/485, etc. (Key Features See Table 1.)

Key Features			
Radio Frequency Band	2.4GHz	Max Output Power	0dBm
Transmission Rate	250kbps	Receiver Sensitivity	-95dBm
Number of Channels	16	Protection Class	IP67
Antenna Beamwidth	±60°	Operating Temperature	-40℃～+85℃
Channel Bandwidth	5MHz	Relative Humidity	≤95%(Non Condensing)
Detection sensitivity	0～15 Level	Operating Life	≥5 years
Antenna Type	Ceramic Antenna	Power	48VDC

Table 1.

3. Wireless Vehicle Detector Receiver Installation Guide

The Wireless Vehicle Detector Receiver is a signal receiving, processing and transmission device, which uses 48V DC power supply (Cable Power supply).The installation height maintain 4~6 meters, installation location should be in the vicinity of the traffic signal machine (depending on the site conditions). In the installation process, easy connection to select the appropriate lever principle, such as some lampposts or monitoring rod.Cable length should not be more than 80 meters, otherwise it will affect communications network signal.(the number of receivers installed for each intersection).(See Figure 1.)

Figure 1

4.MeritPlusDta Technical Support

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.