

# Bicycle Counting with the Datarec 7 Signature

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## **DATAREC 7 SIGNATURE**

*High performance traffic classifier*

### **Features**

- Bicycle counting with inductive pattern recognition.
- User programmable.
- Web interface.
- Low power consumption.
- Excel ready data output.
- Easy to install and maintain.

### **Bicycle counting**

If you need to count bicycles your best choice is the Datarec 7 Signature. By adopting new technology and new pattern-recognition methods we have upgraded Datarec 7 to register bicycles by means of inductive loops.

### **Simple to use**

When you start Datarec 7 you use the built-in web server or the Traffic 6 program which is installed on your PC. Two of the inductive loops can be set aside for bicycle counting, while the other four can be used to register vehicles. This means that you can register bicycles and vehicles simultaneously.

### **Inductive loops**

Two square inductive loops in each lane are used to register vehicles, while bicycle counting requires a single loop in each lane, laid at an angle and with its sides parallel. The loop may only be laid in a pedestrian/cycle track.

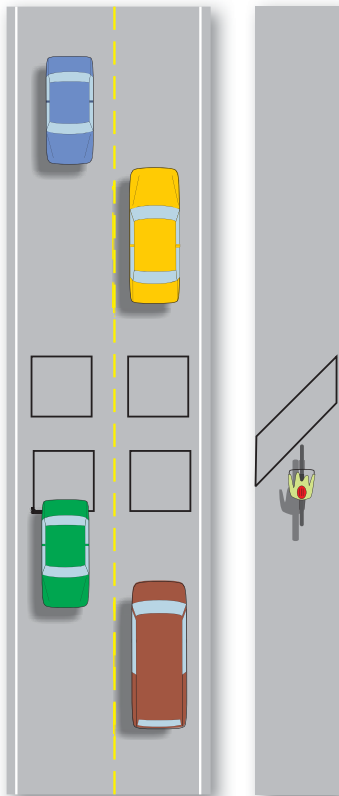
### **Data Acquisition and Presentation**

The number of bicycles passing is recorded in RTD format (Road Traffic Data, comma separated values) for easy data presentation and use, either from Traffic 6 or by exporting the data to Excel. Traffic 6 can be run under Windows®.

### **Applications**

Great effort is being put into building pedestrian/cycle paths in order to improve road safety. Automatic bicycle counting enables the effects of such investments to be documented. The figures can also be used to demonstrate how well publicity campaigns and measures designed to increase the use of cycle paths are working. This is important, not least at a time when we wish to reduce private car use and encourage more people to cycle.

All Datarec products benefit from more than 30 years of experience with roadside products in a rough environment. Contact us to find out more about how to get started.



|                            |   |
|----------------------------|---|
| <b>Version 4183</b>        | 8 loops, up to 4 lanes  |
| <b>Weight</b>              | 2.5 kg  |
| <b>Dimensions (HxWxD)</b>  | 290x220x65mm  |
| <b>Hardware Interface</b>  | Ethernet 10Mbit, RS232  |
| <b>Software Interface</b>  | Web server, ftp server, SOAP  |
| <b>Sensors</b>             | 8 or 12 inductive loops   |
| <b>Temperatures</b>        | Full operation -40°C to +85°C   |
| <b>Power</b>               | 9-15V   |
| <b>Current Consumption</b> | 12V/35mA average  |
| <b>Environment</b>         | IP65  |
| <b>Display</b>             | 2 lines, each 8 characters  |
| <b>Data Styles</b>         | Interval and/or vehicle by vehicle  |
| <b>Data Output</b>         | Count, occupancy, gap, length, headway and/or vehicle type classification |

|                |   |
|----------------|---|
| <b>Options</b> | Datarec 7 can be delivered with a wide range of options:  |
|                | <ul style="list-style-type: none"><li>• Bicycle counting</li><li>• Controlling variable message signs</li><li>• “Ghost detection”</li></ul> |

## Data types and retrieval

Datarec 7 calculates data such as speed, length, gap and class of every vehicle that passes. Data can be stored for individual vehicles or as the basis for various types of statistical data. This ability makes the DR7 ideal for a wide range of applications ranging from gathering data for statistical purposes to real-time traffic control or even both at the same time. Data can be gathered from a PC or server via a network, 3G/4G or GSM.

## Adaption

Due to the flexibility in the Datarec 7 software structure it is easy to integrate DR7 to other systems using the web server, ftp server or SOAP. When adapting to national standards, Datarec 7 is able to detect vehicles on a wide scale of different loop geometries.

## Highly rated accuracy and reliability

When loops are installed according to procedures and specifications accommodating Datarec 7, these sensor types are by far the most reliable sensors for traffic monitoring. A measurement system of loops connected to our DR7 measuring station provides an outstanding level of guaranteed accuracy, very high flexibility and the benefits of a user programmable system. Datarec 7 is easily configured by your system integrator or by the user, and is ideal for almost any application involving precise classification of vehicles.

With Datarec 7 you can choose to classify the vehicle by its electrical length, and/or by inductive pattern recognition.

Post Box 34 SLÅTTHAUG  
5851 BERGEN, NORWAY  
TEL. +47 55 60 48 00  
FAX. +47 55 60 48 01

<http://www.aadi.no>  
e-mail: [info@aadi.no](mailto:info@aadi.no)

Representative's stamp