

# FLEX | Truly wireless, continuous measurement

A standalone wireless vehicle sensor for accurate continuous measurement



## Wireless without drawbacks

The new FLEX sensor from Sensebit is a standalone vehicle sensor with integrated battery and modem that requires no roadside equipment. The sensor is installed in the center of the lane to be measured and connects directly to the cloud. The new version gives up to 10 years of continuous measurements and daily uploads on one battery pack. With quick installation, remote management and accurate data, the FLEX sensor is an ideal solution for urban streets, highways and even rural gravel roads.



### Measure anywhere

Since no roadside equipment is needed, the FLEX sensor can be installed basically anywhere in **less than 15 minutes** to collect traffic data.



### Battery-life

With new cutting-edge energy management, the new FLEX sensor can handle up to **10 years of continuous measurements** and uploads on one battery pack.



### Robust

Built to handle Nordic winters and Australian summers and with no roadside installation, the FLEX sensor requires **no maintenance** once installed.



### Open

Built on open protocols, the FLEX sensor can be used with most existing software, including **full support in Trafficweb** for a complete solution.

## What data do I get?

Vehicle-by-vehicle data that can be used for statistics, detailed studies or ITS applications.



### Timestamp

Synchronized time with millisecond resolution.



### Velocity

-200 to 200km/h with 0.1km/h resolution.



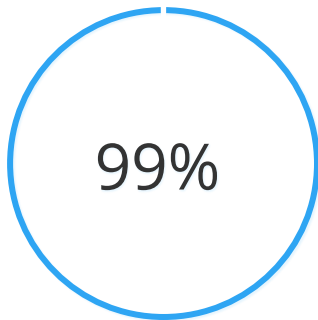
### Classification

Up to 5 classes, choose your scheme.



### Length

Bumper to bumper with 0.1m resolution.



Completeness

Classification error (five class scheme)



Average velocity error



Average length error



\* Test by the Nordic traffic authorities research cooperation NordFOU.

## Accuracy

We continuously participate in third party tests organized by road administrations and research organization throughout the world to assert the performance of our vehicle sensors. All accuracy claims are based on independent and published reports.

## “The data is not ok, it's fantastic”

- John Byrnes, CEO Road Information Technologies

### A permanent solution

With up to 10 years of continuous measurements, the new FLEX can replace both loops, radars and manual counts.



### A fraction of the cost

Without the need for roadside equipment or power, the total cost of establishing a permanent measurement location with the new FLEX is a fraction of that with loops or radars.



### Real data

No rough counts or estimates of averages, the FLEX sensor delivers independently verified accurate per-vehicle data. Get counts, speeds and classifications you can trust.

Physical specifications	
Height	115 mm
Diameter	155 mm
Operating temperature	-35°C to 70°C
Ingress protection	IP68

Network specifications	
Bands	GSM:850,900,1800,1900 MHz UMTS:800,850,900,1700,2100,1800,1900,2100 MHz LTE:700,800,850,900,1700/2100,1800,1900,2100,2600 MHz
SIM	Mini-SIM (ISO/IEC 7810:2003, ID-000)

Installation specifications	
Drill diameter	>170 mm
Drill depth	180 mm
Installation time	~15 min