Networked Traffic Sensors

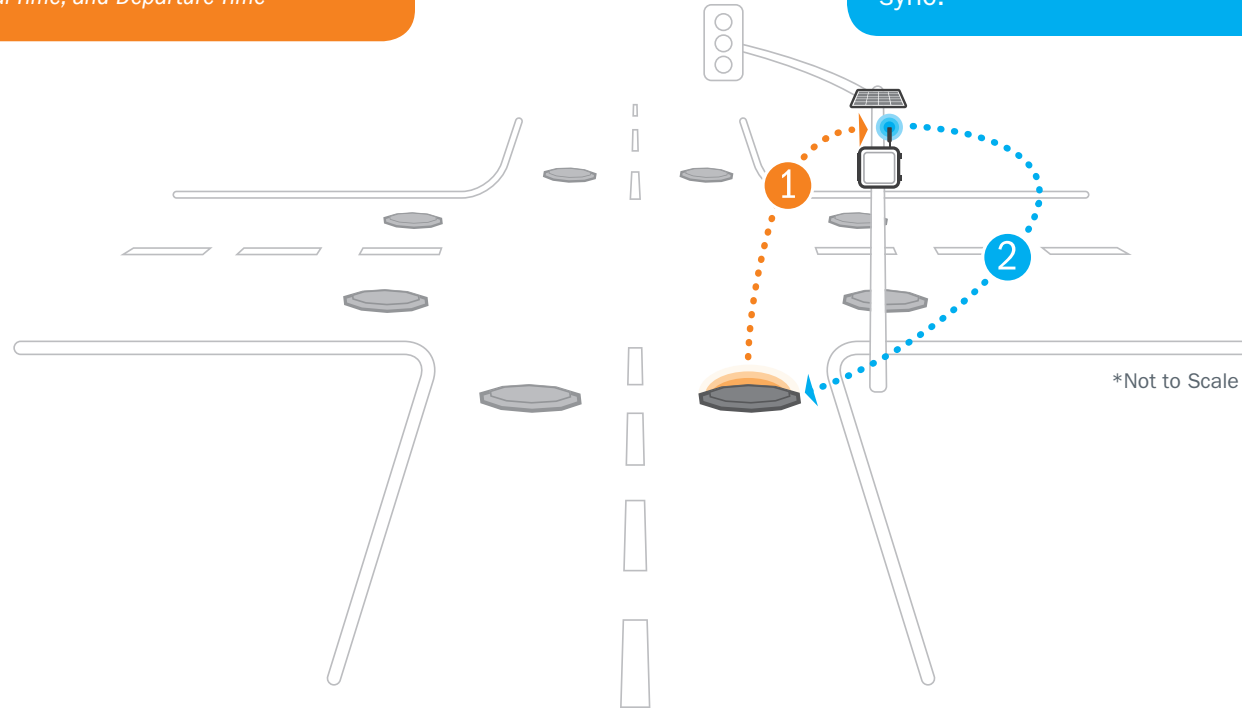
synchronized sensors for high quality research

1

At the moment of an event, the sensor sends a data packet to the base station via radio signal.
Data Packet Includes: Sensor ID, Arrival Time, and Departure Time

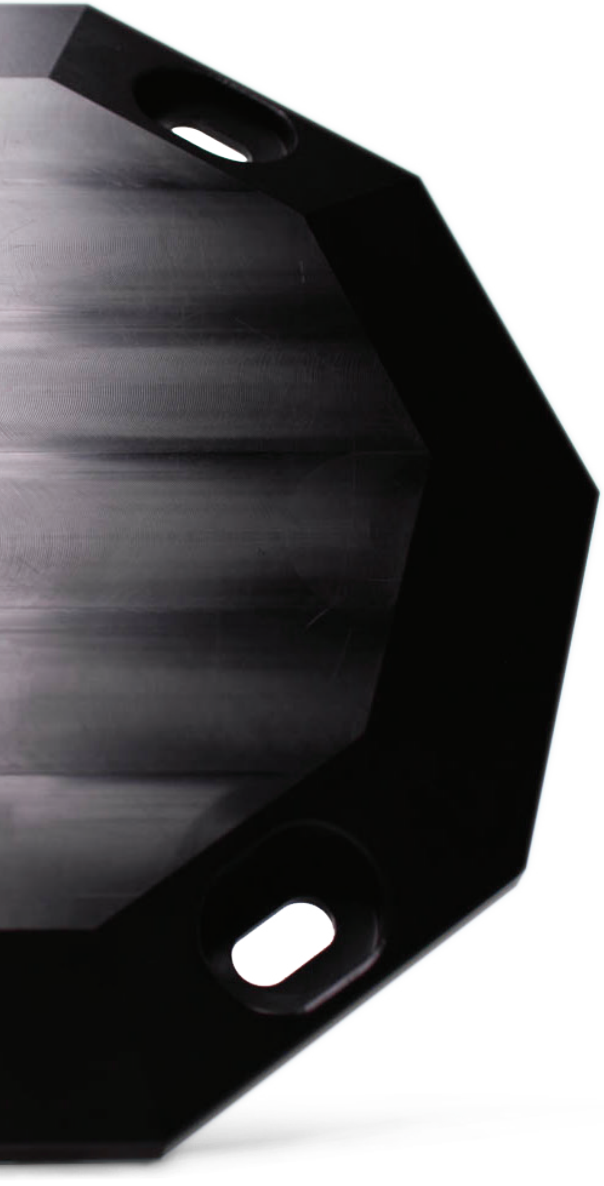
2

Once a data packet is received from a sensor, the base station relays back a time stamp which keeps the system and data in sync.



TRAFFICPOINT BY DECAGON

TrafficPoint was designed with academic researchers in mind. The system delivers superior data quality for a reasonable price. Simplicity in design enables hassle-free installation and maintenance of networked sensors.



*Not to Scale

Wireless Data Reporting

All deployed sensors communicate wirelessly to a base station located on the side of the road or intersection. All data from networked sensors can be retrieved from a single access point. There is no need to deal with individual sensors for data collection.

Network of Sensors

All sensors in deployment synchronize their internal clock to the base station. It is this synchronization that allows accurate vehicle tracking.

Quick Installation

Sensors install easily and quickly on the road surface using Butyl tape or concrete anchors. The amount of time required to close a lane to install a sensor is minimal.

Research Grade

Data collected from the base station include: individual sensor name, time of a vehicle detection, and occupancy time. Researchers can use these raw data to perform traffic analysis based on where the sensors were installed in the deployment.

Remote Programming

Configuration information can be sent to the base station, and the base station configures each sensor in the deployment. Direct interaction with an individual sensor is not required.

Wireless Charging

Sensors are recharged using inductive charging. There is no need to remove or replace batteries. The sensor can simply be placed on a compatible wireless charging pad.

Solar Panel

Base Station

Wireless Charging Pad

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