Typical Applications

- Temporary vehicular traffic counting
- Permanent counting
- Traffic counting where power is not readily available
- Counting to assess road construction or expansion needs
- Temporary counting during road construction or large events and festivals
- Obtain counts and speeds to assess traffic flow to optimize traffic lights cycles
- Update traffic models to include new realities
- Assess pollution and noise impact based on traffic volume

Unique Features

- Non-intrusive
- Quickly and easily deployed
- Browser-based management and data access
- Easy Integration to third-party applications, such as traffic modeling software through http web-interfaces
- Powered by solar or locally available, power source, even if intermittend
- Simple plug & play setup
- Works with preferred mobile operator or ADEC-supplied SIM card

TDC1-PIR Traffic Detector

- 5-channel PIR sensor array
- Monitors a single lane of traffic
- Classification into three length-based vehicle classes
- Wide mounting range of 5.5 m - 18 m from monitored lane
- Mounting overhead or side of the road
- Detection of standing vehicles (queue)
- Detection of wrong-way drivers
- Optimal performance in all weather conditions

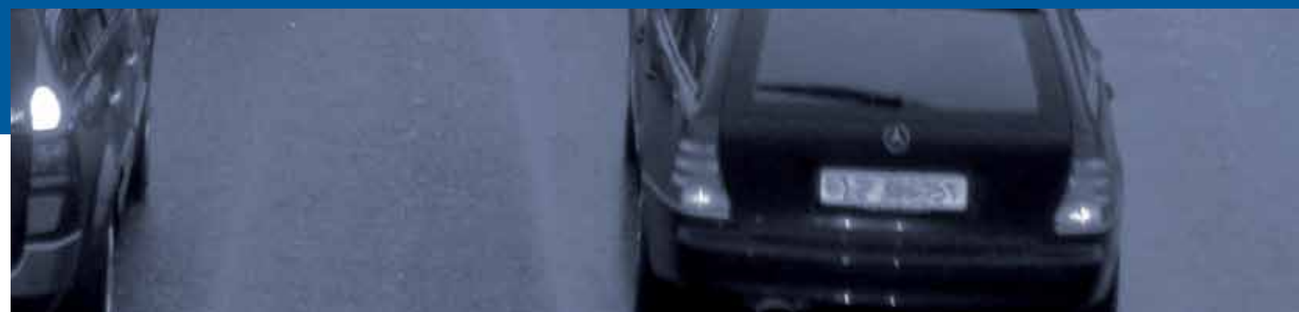
ADEC Technologies

ADEC Technologies AG
Gublenstrasse 1
8733 Eschenbach, Switzerland
+41-55-214-2400 • +41-55-214-2402 (fax)
info@adec-technologies.com • www.adec-technologies.com

Rev 11/16 • Printed in Switzerland

ADEC Technologies

Internet-of-Things (IoT) Traffic Data Collection



"From any road directly to your browser."

"The solar-powered GSM Outstation. No detours."

ADEC Technologies

ADEC Technologies AG is one of Switzerland's leading manufacturers of innovative **traffic** and **parking detectors**. Installers and integrators worldwide turn to ADEC when looking for reliable and proven technology for their traffic and parking management solutions.

Swiss Made

Solar-Powered Traffic Counting

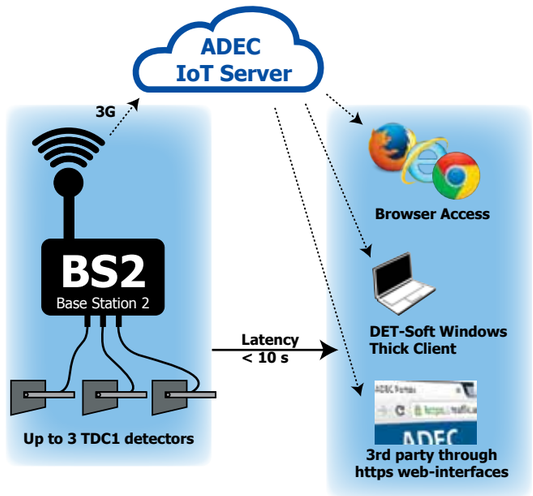
It is a common problem in traffic planning: models are often not well suited to assist in planning new road construction or adding/changing capacity of the existing road network. This is not because the models are not good, but because their input data are inaccurate or purely based on assumptions. This is not a good starting point when deciding where to invest limited funds. This is just one example where temporary or permanent traffic counters can help. There are countless other applications…

Internet-Accessible Traffic Data

The BS2-TS device is a solar-powered, battery-operated station that collects traffic data from up to three TDC1-PIR traffic detectors and transmits the data to ADECs IoT server. TDC1-PIR traffic detectors stand out thanks to their high accuracy and wide mounting range between 5.5 m and 18 m from the lane to be monitored. The detectors can be mounted overhead or on the side of the road. In urban areas, common mounting points are streetlight posts, on inter-urban applications, gantries or overpasses are suitable mounting locations.

The BS2-TS forwards the traffic data via its 3G modem over the mobile phone network to ADECs IoT server where the data are browser-accessible, can be downloaded from or accessed through JSON/REST web interfaces by third-party traffic management systems.

Completely Autonomous Data Collection

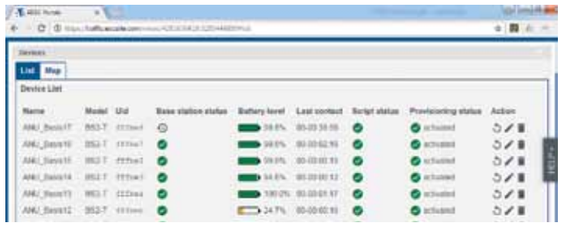


BS2 - IoT Gateway

- Solar-powered
- Battery-operated
- Autonomous operation of three TDC1-PIR for up to five days without sun
- Integrated charging circuitry with option to power via intermittent power source such as streetlights
- On-board 3G-modem
- Software updates over-the-air (OtA)
- Small form factor & light weight for minimal wind load 265 x 220 x 90 mm @ 3.5 kg (10.5" x 8.7" x 3.4" @ 7.7 lbs)
- Designed to be installed and operated with ADEC IoT Server (https://traffic.exosite.com), also supports data transmission via UDP or e-mail to 3rd party server

Easy Setup and Data Retrieval

- Create IoT Server Account
- Mount and align BS2-TS and traffic detectors
- Configure detectors' mounting height via Browser
- Collect & download traffic data



Browser Access For All Relevant Tasks

- Monitor individual outstations
- Add and remove outstations
- Add, remove and configure detectors
- Move, park and reposition outstations
- View and CSV-download historic traffic data for further processing and external storage