

# **ADEC Cloud**

is an application that runs in the cloud and receives traffic data from grid- or solarpowered BS2-IoT gateways and stores them securely. The dashboard provides access to all relevant functions in a well-organized, user-friendly manner:

- Traffic data in table and graph format over arbitrary periods ~
- Battery status and other diagnostics of all BS2-IoT gateways ~
- Adding, removing and configuring traffic detectors on BS2-IoT gateways ~
- Configuring queue criteria using speed and/or road-occupancy thresholds ~
- Associating digital outputs in cloud-controlled DIOs to customizable detector's ~ queue condition
- Complete logging of all events with different logging severity levels ~
- Sophisticated filtering and sorting capabilities 6
- Data export and periodic report generation & transmission (by e-mail) ~
- Secure real-time traffic data access for 3rd party software through web-interfaces 4





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

Rev 2203 • Printed in NL

# **ADEC** Technologies

**Non-Intrusive Traffic Detectors** for ITS Applications













# **ADEC Technologies**

is a globally leading manufacturer from Switzerland of innovative traffic detectors. Architects, engineers, installers and systemintegrators worldwide turn to ADEC when looking for reliable and maintenance-free detectors for their traffic management solutions.

# **Road Traffic Management**

To get the highest throughput from existing roads, operators turn increasingly to traffic management systems to help them maximize throughput, avoid or delay stop & go traffic, and as a result, optimize the traffic flow. Dependable traffic management systems rely on accurate traffic data. ADEC delivers proven, lasting detector technology upon which operators worldwide have come to rely on.

# Solar-Powered IoT & Cloud Integration

Information about the traffic situation directly from the roads to the browser or any third-party system via simple web-APIs: The BS2-TS IoT gateway is an autonomous, solar-powered system for collecting traffic data using up to three TDC1-PIR and transmitting them to the ADEC Cloud via GSM.

# Queue Zone Management

influences a traffic lights' timing by queue size. The queue length is measured using one or more BS2/TDC1 measurement points. In the cloud, speed- and occupancy-criteria are applied to all incoming vehicle events. Queue length is sent from the cloud to traffic lights' controller (Internet access necessary). The browser-based dashboard provides real-time overview and control of the queue zone application. Queue zone management optimizes traffic flow, reduces wait time and pollution.



# TDC2: Dual-Technology Traffic Detector **PIR US**

True-presence vehicle and object detection and counting.

- True-presence detection up to 10 m (33 ft.)
- Dry-contact relay output
- Overhead or road-side mounting
- Ability to discriminate by object height

## TDD1: Microwave Doppler Radar MW

This simple traffic detector with IR control unit features a detection range of 15 to 75 m (50 - 200 ft.) and an SPDT relay output for detecting moving objects.

- ~
- Optional IR remote for wireless setup

## TDC1: PIR Traffic Detector **PIR**

Highly accurate traffic counter with radar-like speed accuracy.

- Monitors single lane of traffic
- Ultra-low power consumption of less than 60 mW

- Optional standalone queue detection (TDC1-PIR-Q)

## TDC3: Triple-Technology Vehicle Classifier **PIR MW US**

Vehicle classifier providing accurate TLS-like classification. Available for 2, 2+1, 5+1 and 8+1 (TLS) vehicle classes ~

- Easy, automated commissioning
- Self-calibrating speed acquisition
  - Optional customizable trigger for third-party devices
  - Side-mount available for single lane, 2-bin classification
  - by vehicle length



Detects vehicles, pedestrians and other larger objects



Approaching, departing or bi-directional traffic detection Wide operating voltage range 5.0 - 60 V DC / 24-42 V AC

Suitable for both inter-urban and urban applications Outputs vehicles' speed, length, timegap and occupancy



