ADEC Cloud

is an application that runs in the cloud and receives traffic data from grid- or solar-powered 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
- Data export and periodic report generation & transmission (by e-mail)
- Secure real-time traffic data access for 3rd party software through web-interfaces

ADEC
Technologies

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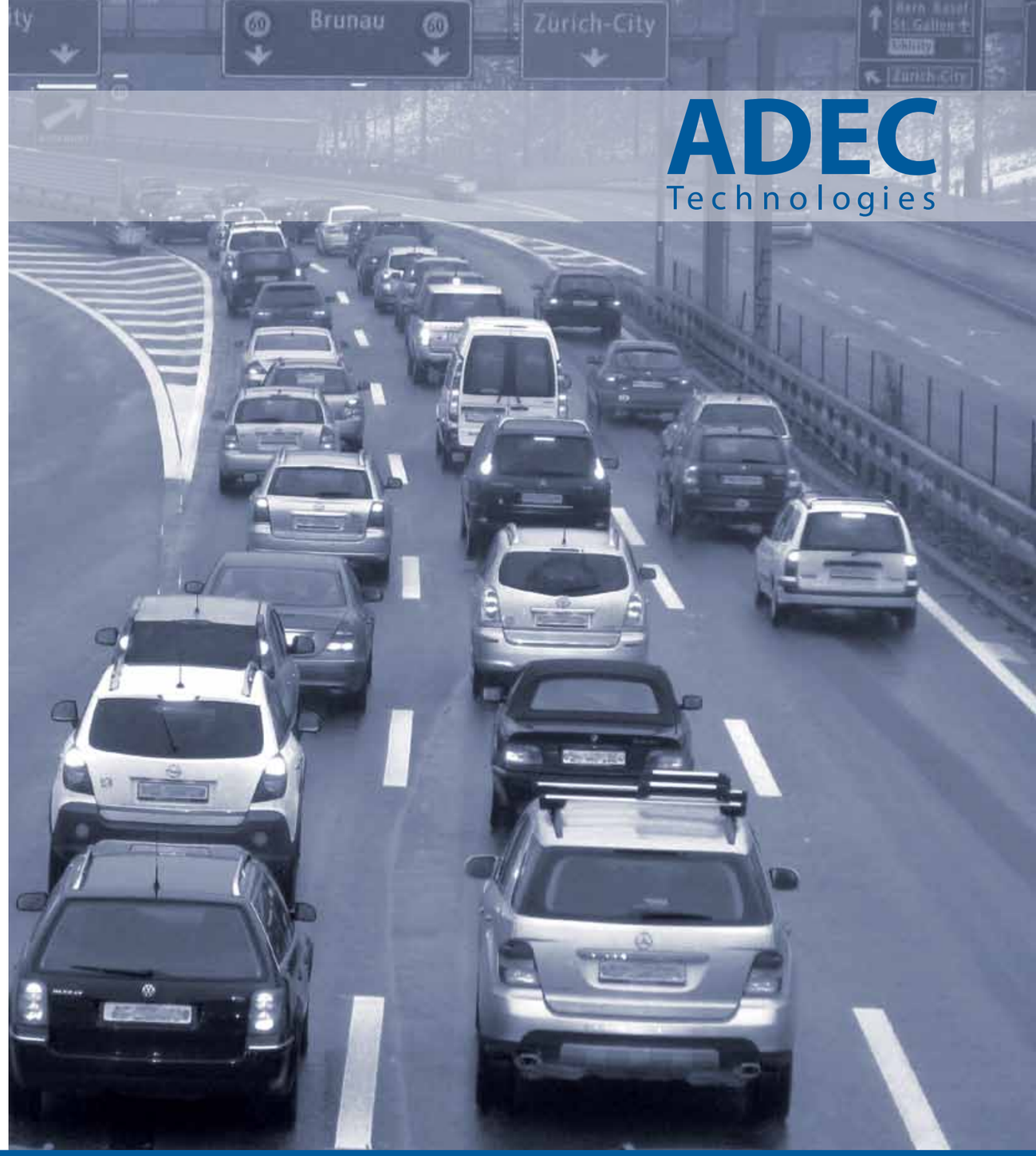
Rev 2603



ADEC
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Non-Intrusive Traffic Detectors for ITS Applications

Swiss Made

ADEC Technologies

is a globally recognized manufacturer based in Switzerland, specializing in innovative traffic detectors. Since 2009, architects, engineers, installers, and system integrators around the world have relied on ADEC for dependable and maintenance-free detectors for their traffic management solutions.

Road Traffic Management

To achieve the highest throughput on existing roads, operators are increasingly utilizing traffic management systems to maximize efficiency, minimize or delay stop-and-go traffic, and ultimately optimize traffic flow. Reliable traffic management systems depend on accurate traffic data. ADEC provides proven and durable detector technology that operators around the world have come to trust.

Traffic Data Acquisition in Tunnels

Acquiring Traffic Data within tunnels presents unique challenges compared to open roadways. The ADEC TDC3X-T, a specialized member of the new TDC3X Multiradar™ series, is designed to meet the rising demand for precise, non-intrusive and occlusion-free traffic monitoring in tunnel environments. In addition to enhanced IP66/67 ingress protection, the detector supports the 4.5/3.5 reduced mounting height coverage pattern – monitoring a 3.5m-wide lane from 4.5m mounting height – while ensuring lifetime maintenance-free operation.

Traffic Data Collector & Transmitter

This solution is optimized for real-time traffic data acquisition and transmission, with optional solar operation. Data captured by the connected TDC1-PIR traffic detectors are transmitted either as individual vehicle records or interval data directly to your MQTT broker, enabling immediate use in traffic management systems

TDD1: Microwave Doppler Radar MW

Simple traffic detector with an SPDT relay output for detecting moving objects.

with IR control unit features a

- Detection range of 15 – 75 m (50 – 200 ft.)
- Approaching, departing or bi-directional traffic detection
- Flexible input power 5 – 30 VDC or 5, 12 or 24 VAC
- Easy setup using IR remote

TDC1: PIR Traffic Detector PIR

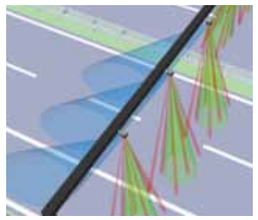
Highly accurate traffic counter with radar-like speed accuracy.

- Monitors single lane of traffic
- Ultra-low power consumption of less than 60 mW
- Suitable for both inter-urban and urban applications
- Outputs vehicles' speed, length, timegap and occupancy
- Multi-purpose digital output

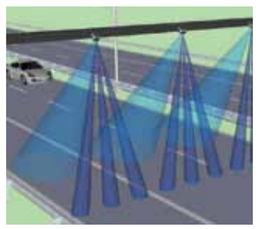
TDC3: Triple-Technology Vehicle Classifier PIR MW US

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



TDC3X-T: Multiradar™ Vehicle Classifier in Tunnels MW3

Next-Gen vehicle classifier for traffic data acquisition

- Classifies up to TLS 8+1 and other height-profile or length-based classification schemes
- Self-calibrating and maintenance free
- High ingress protection (IP 66/67)
- Overhead-mount and occlusion-free detection
- Easy, automated commissioning