

TDS 821R/VDK900

Traffic monitoring system

Traffic data are an important planning basis for assessing traffic situations and forecasting traffic. For this purpose, Traffic Data Systems (TDS) provides a reliable remote monitoring station in the form of the TDS821R/VDK900, which has been established for many years and has always set the standard.

The high accuracy and reproducibility of the measured and classified data are based on powerful pattern recognition methods and updated vehicle patterns.

Before the German Federal Highway Research Institute (BAST) had even carried out the first TLS suitability tests, the TDS821R/VDK900 had been certified by appropriate engineering consultants as always having the highest accuracy class A1 according to Section IV (Testing) of the TLS (Technical Conditions of Supply for Roadside Remote Stations).



TDS 821R (CPU)

As part of the TLS suitability test, in June 2009, the German Federal Highway Research Institute certified the TDS821R/VDK900 system to be the first with accuracy class A1 with 300m cables and 8+1 vehicle classification on the TLS Type 2 loop. Comparable accuracies have also

been achieved for up to 10 vehicle classes with similar loop geometries.

TLS-compliant individual, short-term and long-term function group 1 data (FG1) are determined and made available for transmission as standard. The recorded data can be read out online or locally at any time using the interfaces provided (Ethernet, RS 232, RS 485, USB). A maximum of 10 vehicle classes are classified with high accuracy on the TLS Type 2 loop and comparable loop geometries. All data are stamped with the precise time and date and can be saved in the unit over a period of several months. The TDS821R/VDK900 system is a stand-alone FG1-EAK and can be figured via an Ethernet interface and also online by means of a powerful web interface. A control module is also available for the system as an option.

An integral GPRS/EDGE or UMTS modem and a communications server, which can be accessed via a secure VPN tunnel, are provided for the online connection of remote monitoring stations where there are no roadside telecommunications cables or telephone landlines.

8-lane double loop detector/classifier

Not only is a detector/classifier with 8+1 vehicle types certified by BAST used with the TDS821R/VDK900, but extended learning sets are also available as an option. These detect 'Light Goods Vehicles with Trailers' and 'Gigaliners' as separate vehicle types in addition to the 8+1 vehicle classification. A Swiss 10 Classification (8+1 vehicles plus 'Light Goods Vehicle with Trailer' and 'Light Goods Vehicle with Semi-trailer') can also be supplied on request.

8+1 vehicle according to TLS

Motorcycle
 Passenger car
 Passenger car and light -
 goods vehicle with trailer
 Light goods vehicle<3.5 t
 HGV>3,5 t
 HGV with trailer
 Tractor+Trailer
 Bus
 NCV*

9+1 vehicle

Motorcycle
 Passenger car
 Passenger car with trailer

 Light goods vehicle<3.5 t
 HGV>3,5 t
 HGV with trailer
 Tractor+Trailer
 Bus
 NCV*
 Light goods vehicle < 3.5 t
 with trailer

10+1 vehicle

Motorcycle
 Passenger car
 Passenger car with trailer

 Light goods vehicle<3.5 t
 HGV>3,5 t
 HGV with trailer
 Tractor+Trailer
 Bus
 NCV*
 Light goods vehicle<3.5 t
 with trailer
 Gialiner

* NCV = Non-classified vehicles

Technical specification for the TDS 821R/VDK900

- ▶ Connection of up to 8 double loops
- ▶ BAST certification since 06/2009, accuracy class A1 with 300m cable length
- ▶ Integral quad band GPRS/EDGE or UMTS modem
- ▶ Card holder for 3V SIM cards (front accessible)
- ▶ Integral FG1-EAK (optional control module, FG2, FG3 and FG6)
- ▶ RS 485 interface (local bus)
- ▶ RS 232 interface (modem)
- ▶ Mini SD card (front accessible)
- ▶ Battery-backed real-time clock with calendar, time zones and automatic summer/winter time (can be synchronised in operation via IEEE 1588 and NTP)
- ▶ 4-channel A/D converter (2 x 0-15 and 2 x 0-30 VDC)
- ▶ USB interface
- ▶ Ethernet interface
- ▶ Temperature range -25°C/+75°C
- ▶ 19-inch rack or desktop case
- ▶ Power supply 230V/50-60 Hz or 12-28VDC
- ▶ Power consumption: max.15 Watt (depending on expansion stage)
- ▶ 19-inch rack or desktop case

Subject to technical changes

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