COUNTING AND CLASSIFICATION

Data collection for better infrastructure and maintenance planning

Traffic counting and recognition of vehicle categories serve as a great tool for collecting traffic stats. It can be done with various non-intrusive technologies, such as cameras, radars, or laser scanners. To meet the highest requirements on accuracy and reliability, we provide solutions that use inductive loops and pressure sensors installed in the pavement.

The choice of technology is made based on the customers' needs. Thanks to our wide portfolio of traffic solutions and the modularity of our systems, we can even use a combination of various technologies to achieve exceptional results.

Features

- High accuracy using in-road technologies
- Custom defined classification schemes
- Fusion between technologies
- 200+ vehicle classes recognized
- Data can be exported in custom formats
- Scalable solution

Benefits

Various Technologies

We provide the right technology for your needs. Some bring efficiency by serving more purposes, others feature more accurate output.

Valuable Stats

Collected data enables deep analysis of the traffic flow and using the knowledge for infrastructure and investment planning.

Reasonable Costs

Any local authority can afford collection of essential traffic data, possibly in combination with speed enforcement.

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Technical Parameters

Data Collection*	Count, intensity, gap, headway, vehicle class, length and direction, lane occupancy, time of occupancy, speed, axle counting, axle spacing
Identification	Precise time stamps (UTC, ISO8601, 1 ms accuracy), site ID code, road lane number, validity and error codes
Traffic Flow	Normal, opposite and bi-directional
Power Supply	10 – 30 V DC, PoE IEEE 802.3af, 12 W max
Protection	IP 40
Operating Temperature	-40 to 60 ˚C
Interfaces	2x Ethernet 1 Gb/s, RS232, 2x USB
Protocols	UDP, TCP/IP, HTTP, SOAP, TLS compatible etc.
Storage	Up to 256 GB MicroSD/SDHC/SDXC, external USB flash disc
Loop Inductance	25 µH to 500 µH (50 µH to 200 µH recommended)
Loop Frequency	30 kHz to 150 kHz
Loop Resistance	20 Ω max
Loop Feeder Cable	100 m 300 m max with cable extender
Inductive Loops**	16 max 2 per lane, 1 m long, 1 - 4.3 m wide, spaced 1.5 - 3 m (road lane width 1 – 5 m)
Extra Features	LED indication of triggered sensors Ergonomic web user interface Real-time clock (RTC) with battery backup, NTP or TLS synchronization DIN rail module, 19" rack/table housing

* Based on the version.

** Other sensors and setup configurations are available upon request.

Version Comparison

	Traffic Counter (TC)	Advanced Traffic Classifier (ATC)	ATC with Weight Estimations
Classification	SWISS7, LPSIG09, 8+1	EUR13, SWISS7, LPSIG09, 8+1, 40+ predefined, 200+ possible	EUR13, SWISS7, LPSIG09, 8+1, 40+ predefined, dual tire detection, user definition available
Inputs	up to 16 inductive loops	up to 16 inductive loops up to 16 piezoelectric sensors temperature sensor, I/O	up to 16 inductive loops up to 24 piezoelectric sensors temperature sensor, I/O

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