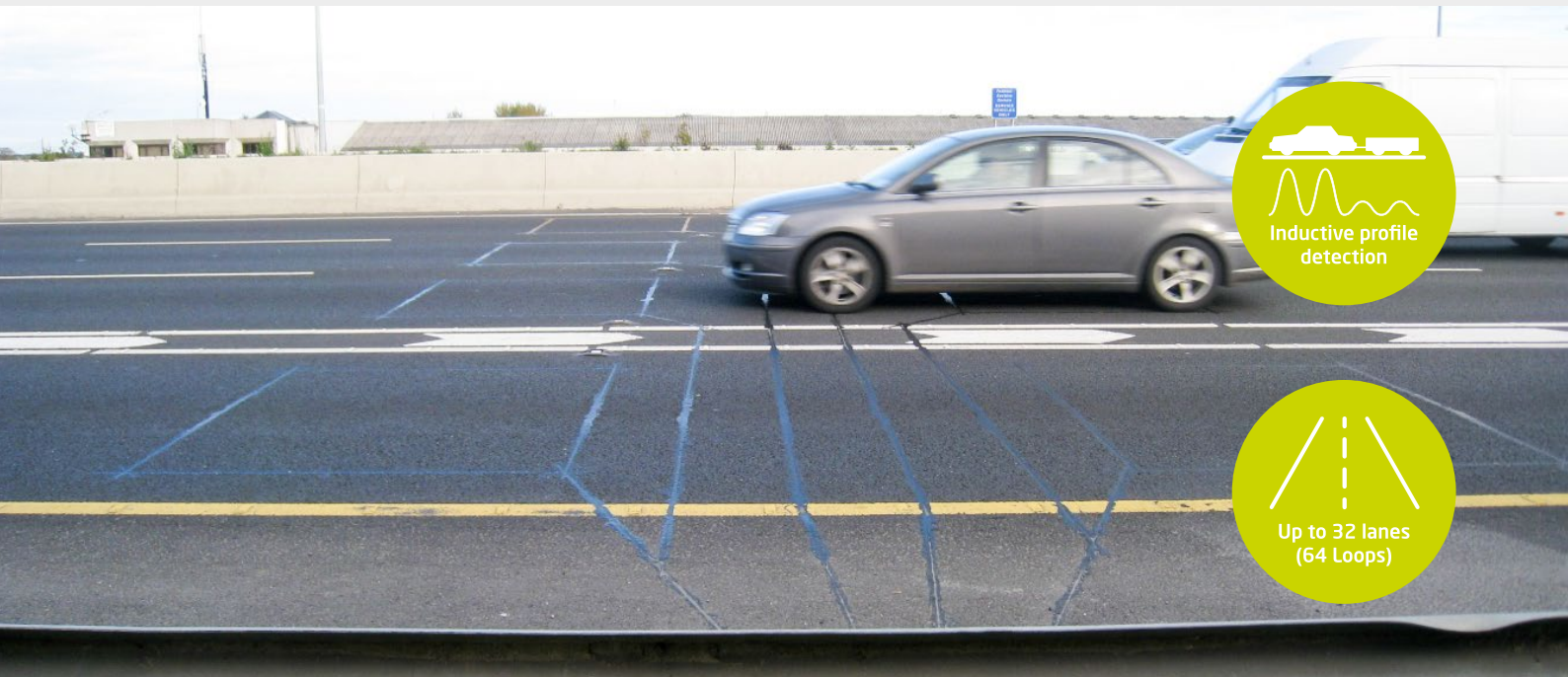


PROFILE-TEC

Profile Traffic Electronic Classifier



KEY FEATURES

PROFILE-TEC is a device with magnetic induction technology that allows the detection, tracking and classification of the vehicle based on the magnetic profile. Units for DIN rail detector designed to manage up to 4 vehicular cycle classification of a magnetic Profile Act interfacing with type TEC Station. Data storage units on ARM Platform with Web-Server inside.

TEC Web Console is the web interface that allows the configuration of the device, the access of the local traffic or remote data Using LAN port. Profile-TEC is available for fixed installation with mains supply, from public lighting or photovoltaic panel, complete with back-up battery.

BENEFITS

- Accurate, reliable and low maintenance
- Web Server inside with TEC Console local data store
- TEC - SMacs® for visualization and data analysis from Cloud Platform, without waste from local
- Detection insensitive to weather conditions
- Detection until 32 lanes
- Modular structure
- Locating the magnetic profile of the vehicle which allows the identification of vehicles with trailer

PERFORMANCES

- Manage up to 64 vehicular loop with magnetic profile classification (Up to 32 lanes)
- Storage capacity of more than 100 million vehicles, vehicle by vehicle
- Vehicle registration per vehicle
- Each measurement includes, type of vehicle, lane, speed, headway and vehicle length detection instant
- Classification scheme up to 8 + 1 vehicle classes, certified to TLS Standard
- Speed Range: 1 km/h to 255 km/h

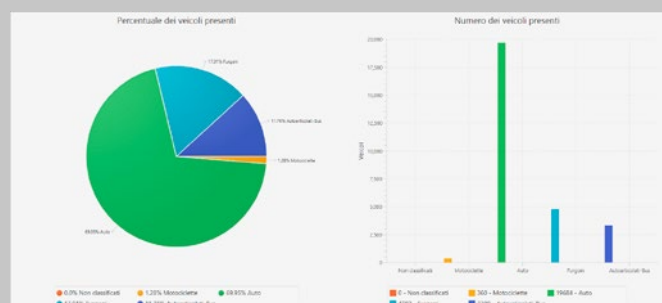
- Accuracy: Counting 99%, Length ± 0.3 m, Tolerance under 100 km/h ± 3 km/h, Tolerance over 100 km/h ± 3 %, Resolution 1 km/h, Typology 8+1 classes certified to TLS Standard
- Configured and interfaced with TEC-SMacs® to display and to analyse data from the Cloud Platform, without waste from local
- Interface: Ethernet-USB
- Power: 10-28 VDC, < 2 VA

ARM UNIT TEC Traffic Electronic Classifier

Classifier unit ARM based on storage and local monitoring vehicle by vehicle with the following features:

- CPU ARCH ARM at 1GHz Cortex-A8
- Video Output: HDMI resolution 1280 x 1024 max (microHDMI)
- Temperature: -40° C + 70° C
- Power: 10-28 VDC, <2 VA
- Memory SDRAM: 512 MB 800 MHz DDR3L
- Flash EMMC 4 GB 8 bit
- SD MicroSD Slot
- Port data: 1xRS485, 1xRS232, 2xUSB
- I2C Bus for Sensor
- Real time clock: Battery backed real time clock ± 5 ppm precision
- LAN: Ethernet 10/100
- Wifi, Bluetooth, GPRS, 3G: Optional
- Input: 4 Optoisolated 200 mA@24 VDC
- Relay Output: 2 NO-NC 3A@24 VDC 3A@120 VAC
- Storage capacity of more than 100 Million vehicles, vehicle by vehicle
- Web server inside for direct communication or connection via LAN

Corsia		Velocità [km/h]	Lunghezza [m]	Headway [s]
0	allu	27	3.14	16
1	allu	57	0.75	24
1	allu	56	8.29	0
0	allu	54	4.64	1
1	allu	49	3.33	11



SENSORS

- **Profile4-Sens** Sens detector unit for DIN rail designed to handle up to 4 loops vehicle with magnetic profile classification; act interfacing with type TEC Station. Up to 16 sens (32 lanes)

STORAGE UNIT

- **TEC-Stationary** Data acquisition units on the ARM platform with Web - Server inside in outdoor IP65 VTR cassette (425x325x180 mm) designed for pole mounting including power supply and electric panel 230 VAC - 12 VDC
- **TEC-Stationary-PL** Like TEC-Stationary, includes charger and battery 12 VDC 18 Ah for overnight charging through the public lighting
- **TEC-Stationary-FTV** Like TEC - Stationary , including power Photovoltaic Kit , composed of charge controller , battery 12 VDC 18 Ah and 20 W photovoltaic panel fitted for pole mounting
- **TEC-Floor-Stationary** Like TEC-Stationary, with cabinet (100x650x350 mm) designed for ground installation
- **TEC-Floor-Stationary-PL** Like TEC-Stationary-PL, with cabinet (1100x650x350 mm) designed for ground installation
- **TEC-Floor-Stationary-FTV** Like TEC-Stationary-FTV, with cabinet (1100x650x350 mm) designed for ground installation

COMMUNICATION UNIT

TEC-SMacs® GPRS interface for ITS platform TMacs-SMacs

TRAFFIC DATA ON WEB

TEC-SMacs® is an ITS, Cloud and modular software platform for managing, controlling and monitoring traffic.

TEC-SMacs® offers an advanced web tool for remote consultation of traffic data collected from their stations in the dedicated Macs Analysis module.

Macs Analysis is the module that processes and manages the data obtained from the detection unit for the study of traffic trends. It's available real-time monitoring with trend of traffic flow [veh/h], TGM [veh/g] average daily traffic, vehicle number, average speed [km/h], 15th percentile [km/h], 85th percentile [km/h], average flow [veh/h], average density [veh/km]. All data are compared on an hourly, daily and on average last week.

It is also possible to perform historical searches on one or more lanes of vehicular depending on the classification scheme and the period chosen. It's available the download reports of studies carried out and save the data in csv and excel.

TEC-SMacs® communicates with the Web Server via GPRS modem or Ethernet port.



HEADQUARTERS: Via Ponticello, 17 - 35129 Padova (PD) - ITALY

T. +39 049 773055
www.lasemaforica.com

F. +39 049 8074002
info@lasemaforica.com

T. +39 049 8599361
www.tecsen.it

F. +39 049 8599215
info@tecsen.it