Product specifications





SmartPK

SmartPK is a fixed equipment that performs vehicle speed measurement, with either an ostensive or a discrete version. The equipment records metrological and/or non-metrological violations. Vehicle speed is accurately calculated using the intrusive (loops) or non-intrusive (Doppler) sensors, and the violations can be recorded by wide- and narrow-view cameras.

Applications

Recommended for automatic monitoring and recording of violations on highways, expressways, arterial ways and local roads. Examples: Areas of heavy traffic of vehicles and/or pedestrians; before dangerous curves; road stretches with the presence of pedestrian routes; in the proximity of intersections either controlled or not controlled by traffic lights.

Features

- Vehicle identification and registration;
 - travelling over the speed limit;
 - running red light;
 - stopped over pedestrian crosswalk;
 - · performing improper turns where prohibited by
 - traffic signals;
 - . performing U-turns where prohibited by traffic signals;
 - driving on the shoulder;
 - travelling the wrong way;
 - . toll evasion;
 - · in places and times not permitted by regulation;
 - in a lane designated exclusively for a given type of vehicle.
- Vehicle classification into categories;
- Front and rear vehicle license plate capture;
- Statistical survey of traffic on site;
- Display of the speed measured to the driver; Automatic license plate recognition (OCR).

- Statistical and violation records, including data such as:

 - · direction, lane and location;
 - · date and time;
 - vehicle category;
 - image of the narrow rear and/or front capture;
 - · image of the wide-view capture;
 - · equipment identification;
 - vehicle license plate identified;
 - specific data relative to the violation (when not metrological).

Display

Number of digits: · 2 digits - speed up to 99 km/h

> 2 ½ digits – up to 199 km/h 3 digits – up to 999 km/h

Luminous intensity: > 400 cd* Active elements: > 300

Visibility: Over 100 m**

* Display the digit 8;

In moderate fog and rain conditions

Color management: · Day/night

Technology:

Resolution (pixels): Varied from 1 to 5 MP

Capture form

Capture type:

· Front and/or rear

Lighting system

Lighting:

Infrared illuminator

Monitoring system

Telemetry:

(The Telemetry System allows parameterizable actions to be configured for the secure shutdown based on monitored items)

- · Door open;
- Equipment status; panel
- temperature;
- · Detection of lack of electricity;
- sensor operation; display
- · operation; camera operation;
- illuminator operation; data link
- operation;
- · Performed on equipment boot and, when manually triggered, it is possible to

check all systems

monitored by telemetry.

Communications

Self-diagnosis:

Standard data outputs:

Channels:

Communication devices: Supported

- · Ethernet and USB
- TCP-IP standard modem
- Fiber optics
- Radio loop
- · Satellite Link
- XDSL
- 3G/4G

Technical specifications



Sensors

Intrusive:

• Inductive loop (installed in the lane)

Number of samples: 1000 samples/second

Non-intrusive • Doppler sensor

Equipment features

Supply voltage: • AC Full Range (90 to 240 VAC)

Average power: • 35 W to 80 W
Peak power: • 50 W to 130 W

Energy consumption: • 22 to 80 kWh/month

Electrical features of the

Signaling Panel

Supply voltage:

Average power:

Peak power:

Energy consumption:

• 127 or 220 VAC

• 7 W to 28 W

• 14 W to 56 W

• 6 to 24 kWh/month

Note: Values per lane; variations according to

vehicle flow and configurations.

Dimensions

Width:

Height (without post):

Depth:

Mass:

• 0.42 m
• 0,81 m
• 0,39 m
• 50 kg*

*Average value due to the presence of optional items

Operating environmental

conditions

Temperature: • -10°C to +55°C

Degree of Protection: • IP54

Regulation

INMETRO ordinances: • 1086/2013; 283/2013;

014/2014; 033/2014;

072/2014; 164/2014; 544/2014

Standards met

Structural project: • NBR8800; NBR6123;

NBR14762; NBR6355; NBR8855; NBR9971; NBR5871; NBR10062; NBR8851; NBR10065

Electrical Project:

IEC 61000-4-3; IEC 61000-4-4;
 IEC 60068-2-30; IEC 60068-2-1;

IEC 60068-2-2; NR 10; NR 18;

NBR 5410; NBR 5419

