

**Real-time**

**Tracking**

**Safety &  
Security**

**Prevention**

**Logistics**

**+54 0261 4221177**

**[www.viziongps.com](http://www.viziongps.com)**



**vizion**

**TECNOLOGÍA SATELITAL**



**GLOBALIS**  
TECHNOLOGY AND SOFTWARE DEVELOPMENT

## SPECIFICATIONS OF THE CAN PLATE

### DEFINITION

---

The CAN Plate is a device that reads parameters of vehicle engines whose ECUs (Engine Control Units) have J1939 or J1708/J1587 protocols.

### INTERFACES

---

- RS232 interface for connection to GPS or PC devices.
- Interface for connection to a CAN J1939 bus.
- Interface for connection to a J1708 bus.

### DIMENSIONS

---

- 40 mm x 30 mm

### ELECTRICAL FEATURES

---

- Supply: 9-30 V.
- Consumption: 45 mA @ 12 V.
- Operating Temperature: -40°C to +85°C.

### SUPPORTED PROTOCOLS

---

- SAE j1708/j1587.
- SAE J1939 (CAN).

### SUPPORTED EQUIPMENT

---

- Virtualtec: Virloc 4, Virloc 10.
- Skypatrol: TT8750.
- Others: Equipment with RS-232 communication available and with plain text handling and transmission capabilities.

### CAPABILITIES:

---

- On-demand reading of variables.
- Periodic reading and transmission of variables.
- Alarm configuration (variables outside previously configured limits).
- Statistical data (time within different ranges of a variable by travel or other time periods).
- Transmission of total variables, including fuel consumed, distance traveled, engine hours (by travel or other time periods).
- Air reconfiguration.
- Up to thirty (30) commands recorded in total.
- Statistical data: up to five (5).
- Total variables: up to five (5).

### SUPPORTED VARIABLES

---

- Speed [km/h]
- Engine speed [rpm]
- Distance traveled (historical total value) [km]
- Engine hours (historical total value) [h]
- Idle hours (only J1708/J1587) [h]
- Fuel consumed (historical total value) [L]
- Fuel consumed in idle times (only J1708/J1587) [L]
- Instantaneous fuel consumption [L/s]
- Coolant temperature [°C]
- Oil pressure [kPa]
- Fuel level within the tank [%]
- Voltage at battery terminals [V]
- Position of the accelerator pedal [%]
- Error codes

These variables may be present or not depending on the model of the vehicle and on the protocol used for data reading. Other variables not specified in this document can be accessed.

## POSSIBLE TREATMENT OF VARIABLES

---

### 1. Variables for Statistics Analysis (Bar/Pie Charts)

- Configuration of limits and counters by variable.
- Comparison of the variable value with set limits every certain number of seconds.
- Transmission by events (start/end of the travel, once a day, etc.).

Examples of Variables: Instantaneous Fuel Consumption, Torque, Speed, RPM, Start at Different Engine Temperatures.

### 2. Variables with Limit Control (Maximum and Minimum Values)

- Configuration of Limits.
- Comparison of the variable value with set limits. An alarm must be sent when the value exceeds set limits and after a certain number of seconds.
- Transmission by occurrence.

Examples of Variables: Instantaneous Fuel Consumption (excessive consumption alarm), Temperature and Pressure, RPM.

### 3. Variables for Daily Transmission

- Group of variables that must be saved to be transmitted once a day.

Examples of Variables: Engine Hours, Total Fuel Consumption.

### 4. Variables to Determine Sudden Changes

- Comparison of current and previous variable values. An alarm must be sent when the difference exceeds a certain quantity.

Examples of Variables: Fuel Level at the Tank.

## CAN PLATE DIAGRAM

---

