



FMS Gateway Compact Datasheet

The 2-in-1 FMS converter has a built-in CAN reader and contains our extensive database covering over 2,500 vehicles.

The Inventure FMS Gateway Compact device applies a non-intrusive technology to acquire vehicle specific data. The usage of the device eliminates any vehicle warranty issue since avoids galvanic connection to vehicle communication wires.

It sends converted data through either an FMS/J1939 CAN bus or RS232 output. This data includes the standard FMS parameters, as a subset of J1939 standard, as well as additional parameters calculated by Inventure.

Main features

- Firmware includes our extensive database covering over 2,500 vehicles
- Automatic vehicle recognition: 1 firmware for all of our supported vehicles
- FMS functionality (according to FMS 2.0 / 3.0 standard) to monitor vehicle parameters
- Additional Inventure Extra messages to monitor non-standard parameters (lights, seatbelts, etc.)
- Eco-Driving functionality to monitor driver behavior



Additional features and benefits

- compatible with all AVL systems with FMS/J1939 CAN or RS232 input
- compatible with trucks, buses, vans, passenger cars and agricultural/construction vehicles
- certified product
- installation guide of selected vehicles included
- easy future firmware updates
- shorter installation time

Technical specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Power supply					
Voltage supply	VBAT	7	12/24	32	V
Operating current	I _{op}	10	15	35	mA
Standby current	I _{sb}	2	3	4	mA
CAN interface					
Baud rate		50	250	1000	kBaud
Terminating resistor	R _t	120	120	120	Ohm
Environmental characteristics					
Storage temperature	T _{storage}	-40		85	°C
Operating temperature	T _{op}	-40		75	°C
Humidity	RH	5		85	%

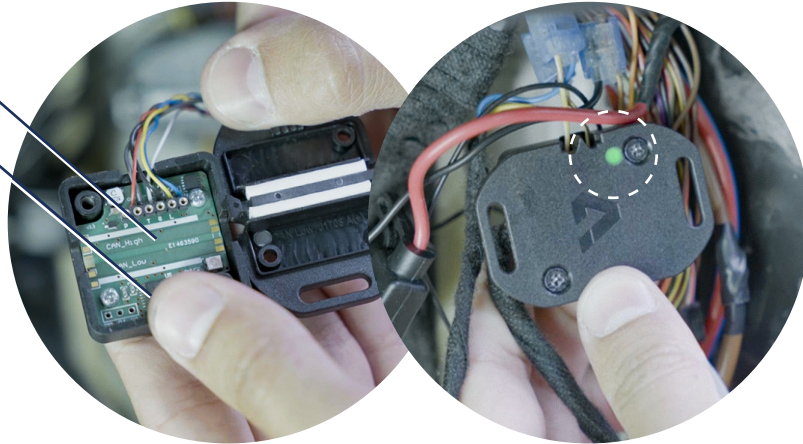
FMS Gateway Compact pinout & led status

Sensing surfaces:

CAN High
CAN Low

Cables:

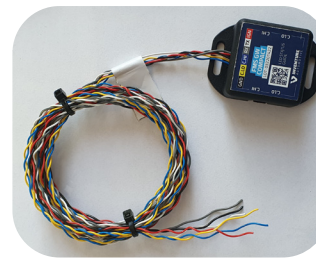
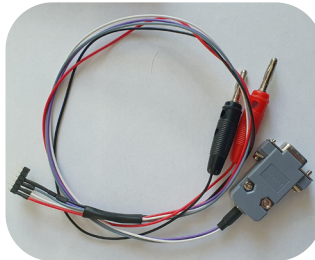
- RED: power supply
- BLACK: ground / RS232 ground
- YELLOW: FMS CAN Low line
- BLUE: FMS CAN High line
- GREY: RS232 RXD channel receive data line
- WHITE: RS232 TXD channel transmit data line



- GREEN: Proper operation
- RED: Vehicle CAN input error / Unknown vehicle
- YELLOW: FMS Can output error / Bootloader state
- ● BLINKING LIGHTS: Overheat
- NO LIGHT: Zero communication on device output

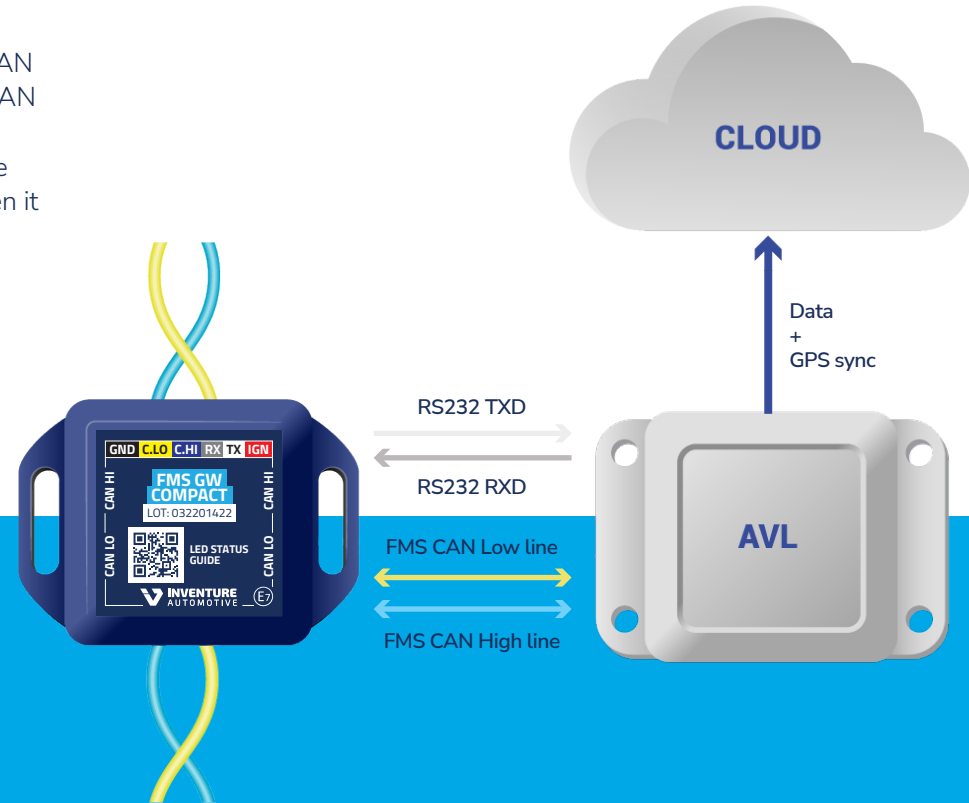
Accessories

- update cable
- customizable cable (lengths, connector)



How it works

We use capacitive principles for one-way communication over CAN Low and CAN High sensor interfaces to extract raw CAN data. With a database of decoded CAN data for over 2,500 vehicles, the device automatically identifies the installed vehicle based on incoming raw data. Firmware with a database of 2,500 vehicle data transforms the raw data into standard FMS and additional parameters, then it is transmitted through output cables (FMS/J1939 CAN bus or RS232) to the telematics device.



If you have any questions or need further assistance, please feel free to contact us at info@inventure-automotive.com | www.inventure-automotive.hu