

Data Set — Geotab Integrated Solution for Tesla Vehicles

Name in MyGeotab UI	Device Plan: Tesla Premium	Data Frequency
GPS Coordinates	✓	3 seconds
Ignition	✓	Event
Engine road speed	✓	3 seconds
Odometer	✓	1 minute
Driver seatbelt (1. Unbuckled)	✓	Event
Tire warning light (1. On)	✓	Event
Accelerator pedal position	✓	5 seconds
Acceleration forward or braking	✓	3 seconds
Acceleration side to side	✓	3 seconds
Tire pressure: Front left	✓	10 minutes
Tire pressure: Front right	✓	10 minutes
Tire pressure: Rear right/Outer rear right	✓	10 minutes
Tire pressure: Rear left/Outer rear left	✓	10 minutes
Brake pedal on	✓	Event
Cruise control active	✓	3 seconds
Gear position (negative #s = reverse gears / positive #s = forward gears / 0 = neutral / 126 = park / 127 = drive / 129 = intermediate)	✓	Event
Outside air temperature	✓	10 minutes
Left turn signal (1. On)	✓	Event
Right turn signal (1. On)	✓	Event
Driver door open	✓	Event
Passenger door open	✓	Event
Right rear door open	✓	Event

Left rear door open	✓	Event
Cargo door open	✓	Event
Blind Spot Collision Warning Chime (0. Inactive, 1. Active)	✓	5 seconds
Speed Limit Warning (0. Inactive, 1. Active)	✓	5 seconds
Forward Collision Warning	✓	5 seconds
Generic state of charge	✓	30 seconds
Electric vehicle charging state (0. Not charging, 1. Ac charging, 2. Dc charging)	✓	Event
Electric vehicle distance remaining	✓	5 minutes
Electric vehicle battery total energy out while driving (since telematics install)***	✓	3 minutes
Electric vehicle battery total energy in while driving (since telematics install)***	✓	3 minutes
Electric vehicle battery total energy in during AC charging (since telematics device install)***	✓	5 minutes
Electric vehicle battery total energy in during DC charging (since telematics device install)***	✓	1 minute
Maximum Brick Voltage	✓	1 minute
Minimum Brick Voltage	✓	1 minute
Front Drive Inverter Motor Current***	✓	1 minute
Rear Drive Inverter Motor Current***	✓	1 minute
Tesla total lifetime energy used***	✓	3 minutes
HV battery current	✓	1 minute
HV battery voltage	✓	1 minute

*Data and Feature Set subject to change.

*Tesla Semi may report different data points from those listed above.

** Data only available for Tesla Semi

*** Data limited by model/year

Countries Supported:

North America: United States, Canada, Mexico, Puerto Rico

Europe: Great Britain, Norway, Netherlands, Germany, Ireland, France, Denmark, Sweden, Belgium,

Slovakia, Greece, Austria, Bulgaria, Croatia, Switzerland, Cyprus, Czech Republic, Estonia, Finland, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovenia, Spain

Feature Set - Geotab Integrated Solution for Tesla

Key Features	
Productivity	
Watchdog report	Partially Supported (Heartbeat is not available)
Trips, Zones, Personal mode	✓
Sustainability	
Idling	✓
EV Charging history	✓
Fuel and EV Energy Usage report	✓
Fill Ups Report	✓
Range estimation, Battery state of health estimation	✓
Safety	
Collision notification	✗
Speeding	✓
Driver Seatbelt	✓
Harsh Acceleration / Braking / Cornering	✓
ADAS Signals	✗
Driver Coaching	✗
Collision reconstruction	✗
Maintenance	
Faults	✗
Battery drain	✓
Engine Abuse	✗
Reminders	✓ (Based on time or distance)
Compliance	
DVIR, IFTA	✓
HOS	✗
Expandability (IOX)	
IOX Support	✗
Detailed Feature List	
Availability	✗

Hardware Installation	No additional hardware required for eligible vehicles
Application	
Web-based tracking	✓
Web-based trip log	✓
Support for multiple map types and views	✓
Unlimited customer zone importing, editing and creation (geofencing)	✓
Notifications on zone entry/exit	✓
Flexible group structure for vehicles, zones (customers), users, rules, drivers, and reports	✓
Powerful and customizable business exception rules	✓
Combination exception rules	✓
Email, web-based popup, text message and web service call notifications on rule exceptions	✓
Roadside Add-In for towing, locksmith, battery boost, fuel delivery, flat tire change, & more. USA and Canada only, with fleet-wide utilization of the ProPlus plan. Other conditions apply	✗
Personal Mode	✓
Collision Reconstruction Add-In	✗
Data Connector, bring curated data into popular BI Tools (also available as paid Add-In)	Partially Supported (GPS, ODO features supported)
Built-In Rules-Based Exceptions	
Speeding	✓
After-hours usage	✓
Productivity (idling, arrival/departure times, etc.)	✓
Backup when leaving	✗
Engine diagnostics and issues	✗
Dangerous driving (acceleration, braking, cornering)	✓
Seatbelt usage	✓
Collision	✗
Low battery warning	✓
Engine misuse (over-revving)	✗
Reports	
Over 30 built-in reports	✓
Customizable dashboards and reports	✓
Trending dashboards and reports	✓
Report scheduling	✓
Private vs. Business mileage	✓
IFTA fuel tax reports	✓
Driver scoring reports	✗

Risk management reports (insurance use case)	✗
Customer stops by zone report	✓
Driver congregation report	✓
Customizable work hours, time off, and timecard reports	✓
Collision reconstruction report.	✗
Find nearest vehicle to location including distance	✓
Maintenance reminders scheduled by time or distance	✓
Maintenance reminders scheduled by engine data parameters	✓ (only ODO, no engine hours)
Unlimited users	✓
Flexible user access control – features can be hidden or limited based on user or vehicle groups	✓
Ability to audit all database actions	✓
Scalable – up to 50,000 devices in one database	✓
One year of cloud storage with tools for local file export	✓
Industry best practices for security	✓
Best-in-class Tier 2 and Tier 3 engineering support	✓
Engine Data	
Odometer and Engine Road Speed	✓
Coolant temperature	✗
Driver's seat belt	✓
Passenger seat occupied	✗
Passenger seatbelt	✗
Total fuel used	✗
Total idle fuel used	✗
Fuel level input (to identify fuel-up events and for data integration with fuel card)	✗
RPM	✗
Ignition detect	✓
Check Engine Light	✗
Engine faults, including unknown proprietary engine faults	✗
EV driving energy used	✓ (trip data only)
EV battery charge % (SOC)	✓
EV charging status	✓
EV charging energy	✓
In-vehicle Audible Alerts / Driver Feedback	✗

Drive App (Mobile device/tablet, data plan for HOS are extra cost.)

Asset Inspection	✓
US Federal Regulations (§396)	✓
Canadian Regulations (NSC 13)	✓
Drive App Hours of Service (HOS)	✗
US Federal Interstate Regulations (§395); US property/passenger 60-hour/7-day & 70-hour/8-day; US property/passenger short-haul; 16-hour day support	✗
Select US Intrastate Regulations; California property/passenger intrastate	✗
Canadian Federal Regulations ELD	✗
Automatic duty status changes	✗
Adverse weather condition support	✗
Oil industry exemption support	✗
Yard Move and Personal Conveyance support	✗
Driver identification and co-driver support	✓
Works alongside other third-party applications installed on mobile device/tablet	✓
2-way messaging	✗
Dispatch zone, address, or route to vehicle via messaging	✗
Rules-based driver feedback via messaging	✗
Navigation using built-in mobile device/tablet application or third-party navigation	✗
Automatic driver-to-vehicle pairing when logged in to the Drive App	✓
Drive App Add-Ins	✓
Privacy Mode	✓

Expansion

Custom Add-In integrations available	✓
Access partner Add-Ons and solutions through the Marketplace (additional cost may apply)	Limited
Advanced Software Development Kit (SDK) supporting full integration and customization (C# & Javascript integration, full AJAX/JSON interface)	✓
IOX Support	✗

Device

End-to-end security using authentication, encryption, message integrity verification, individualized devices with unique IDs, non-static security keys, and digitally-signed firmware	✓
Patented advanced trip recording for accurate vehicle location and distance traveled	N/A
Wi-Fi Hotspot Functionality (additional monthly rate applies. Select regions only)	✗
Internal GPS antenna	✓
Position instantly available after cold start (ephemeris)	✗

Simple to install	✓ (no additional hardware needed)
Installation record (date/time/location) when unit connected	✗
Device tampering/removal detection with date/time/location stamp	N/A
Voltage monitoring on crank (indicates electrical battery health)	✗
Battery voltage monitoring via regular heartbeats when ignition is off (identifies battery drain – door open/light left on)	✗
Self-calibrating accelerometer – no vehicle setup required	✓
Detect towing events (moving with ignition off)	✗
False positive filtering (does not record railroad tracks, speed bumps or potholes as aggressive driving)	✗
Collision data memory buffer records over 100 minutes of second-by-second data – auto detection and upload of last 1.2 minutes on collision	✗
On-device memory for logging out-of-coverage situations	✗
Automatic OBD/CAN protocol detection at device install	✗
Automatic VIN readout	✓
Estimated odometer and engine hours (not based on engine data)	✓
Actual engine hours, engine road speed & odometer from engine	Limited (no engine hours)
Over-the-air firmware updates	✓
Over-the-air plan upgrades	✓
Over-the-air parameter modifications	✓
IP indemnification	Limited (applicable only to MyGeotab)
Active Tracking – Live Vehicle Location	
Real-time audible alerts or verbal coaching for rules-based driver feedback	✗
Map updated with live vehicle movement	✗

This solution is available for Tesla vehicles domiciled in NA and EU..

We are continuously adding support for more features and data. This document reflects the latest features and data set available. If you are interested in a specific feature which is currently unavailable, please contact your Geotab Partner.