

Sentinel Message Status and Definitions

Messages

This is the Status of the vehicle as of the Date/Time reported. The possible status types are as follows:

Moving – Ignition is ON and the vehicle is in motion. Speed is also reported when the vehicle is moving.

Start Idling – Ignition is ON and the vehicle has not been in motion for at least 3 minutes. The duration of idling will be reported as soon as motion has been detected.

Parked – Ignition is OFF and the vehicle is not in motion.

PowerSave – Ignition is OFF and the SFM Unit in the vehicle has entered PowerSave mode. This status is also referred to as Sleep Mode. This vehicle is not able to be reached over the air by any method, and must be 'woken up' by turning the vehicle ignition ON before you are able to do so.

Note: *The default time until the box enters PowerSave mode is 8 hours for SFM2000 units and 1 hour for SFM7000 units. This value can be modified over the air.*

NA – This is a special mode that is set when a SFM Unit has not reported into the system in a user-defined amount of time. Please refer to Sentinel's "User Preferences" module to change this value.

Note: *Occasionally you may notice that there is an asterisk (*) beside the status for a vehicle. What this denotes is that the last packet of data received by the unit does **not** contain GPS location. The unit will sometimes send diagnostic information or other syncing data that does not necessitate location data.*

SendDTC (Diagnostic Trouble Code): will be displayed along with the numerical value of the code when a diagnostic code has been generated from the vehicle onboard computer. The code is imbedded inside the message and can also be found in Sentinel's "Maintenance" module. This is dependent on the ECM cable.

GPS Antenna Open: This message is triggered when the GPS antenna has been disconnected or loose.

GPS Antenna Ok: This message is triggered when the GPS Antenna has been connected or reconnected.

ECM Cable Disconnected: This message is triggered when the ECM cable has been disconnected. It will also be triggered with the first ignition on message of the day to indicate that the status of the ECM cable is disconnected.

ECM Cable Connected: This message is triggered when the ECM cable has been connected or reconnected.

Power Disconnected: This message will be triggered when the Power to the GPS unit has been interrupted.

Backup Battery Low: This message is triggered when the internal GPS backup battery is low. Will occur after the power to the GPS has been interrupted. (Only available on SFM7000 units)

Backup Battery Ok: This message is triggered when the internal GPS backup battery has been fully recharged. Will occur when the power to the GPS has been reconnected. (Only available on SFM7000 units)

Main Battery Low: This message will be triggered when the vehicle's battery is below the accepted threshold.

Battery Trending: This message will be displayed with the "Ignition On" message to indicate that we are recording the vehicle's battery level. Complimentary reports are available in Sentinel's "Reports" module. (Only available on SFM7000 units)

Box Status: This message will be triggered with every ignition on to indicate the status of all the sensors at the time on the ignition on.

Posted Speeding is based on the Navteq road speed database values and the complimentary speeding matrix at the time of the “Scheduled Update”/interval. A modified speed value will take precedence over the Navteq value.

Harsh and Extreme Acceleration or Deceleration is calculated by change in speed (in kilometres/miles per hour) per second. For example a vehicle that is decelerating (braking) at a rate of 13 KPH in one second is ‘Harsh Braking’ The ‘Harsh Braking’ state needs to be maintained for 2 seconds in order to be reported back to the website.

Harsh Acceleration: 10 KPH/S (6 MPH/S)

Extreme Acceleration: 13 KPH/S (8 MPH/S)

Harsh Braking: 13 KPH/S (8 MPH/S)

Extreme Braking: 16 KPH/S (10 MPH/S)

Seatbelt status is represented by “Seatbelt On” and “Seatbelt Off” messages. A seatbelt infraction will be triggered when the vehicle reaches and maintains a speed of 8 km for more than 5 seconds. Seatbelt infractions are represented by the message “SeatBelt” followed by the duration of the seatbelt infraction.

Note:

- *The seatbelt feature is enable for supported GPS models. Currently, the SFM2000 and SFM 7000 support seatbelt status and infractions. SFM5000 GPS models do not support the seatbelt feature.*
- *The seatbelt feature is derived from the vehicle’s onboard computer and thusly requires the ECM cable to be connected.*
- *The GPS must be loaded with latest firmware*
- *The GPS must be configured with the appropriate command based on vehicle make model and year.*

Sensor Activity Messages

PTO (Power Take-Off): PTO On represents an engaged PTO and PTO Off represents a PTO that is disengaged.

Hirail: “Hirail Down” represents a hirail that is engaged and “Hirail Up” represents a disengaged hirail.

Crane: “Crane Up” represents a crane that is engaged and “Crane Down” represents a crane that is disengaged.

Compressor: “Compressor On” represents a compressor that is engaged and “Compressor Off” represents a crane that is disengaged.

AOBR: “Peripheral Power On” will be displaced to indicate that the AOBR has powered up and “Peripheral Power Off” will be displayed to indicate that the AOBR has powered off.