

Sentinel FM 2000



Sentinel FM 2000 is a robust asset tracking platform for real-time fleet management, powered by Sentinel FM. Compatible with virtually any wireless carrier, Sentinel FM 2000 users can choose from various cellular modem options, and select from an assortment of options including trailer and reefer-specific integration kits. Through its integration with vehicle data-bus connectivity, Sentinel FM 2000 directly connect to your OBDII or J1708 equipped vehicles for enhanced reporting capabilities.

Collect Key Vehicle Operational Data in Real-Time

- **Gather Trip Details and Trip Summary Information**

Monitor a vehicle's trip information over a designated timeframe, based on ignition on/off, vehicle position, idling and stop times, distance travelled and stored position.

- **Monitor Fleet Violations**

Collect accurate data on fleet violations including speeding, harsh/extreme acceleration and braking, and other selectable sensors.

- **Geozone Monitoring**

Track when a vehicle enters and leaves a designated Geozone and the duration of time a vehicle remains within a Geozone.

- **Limit Idling**

Gather information on idling times fleet-wide including total hours of fleet idling time, and average idling time per vehicle.

Hardware and Network Agnostic

- Supports a wide variety of mixed hardware configurations - tractors, trailers, chassis and other fleet assets.

Small, Compact and Easy to Install

Sentinel FM 2000 is a small, self-contained unit. Thanks to our *Rapidinstall* option, Sentinel FM 2000 can be installed in a vehicle in just minutes, and does not compromise vehicle wiring integrity.





Rapidinstall
No-cut installation option
Installs in 10 minutes!



For More Information

To find out more about how BSM Wireless hardware solutions can help you lower your fleet costs, boost fleet operational efficiency and improve vehicle and driver safety, visit www.bsmwireless.com or call us at 1-866-768-4771.

| Features | |
|---------------------------------|---|
| Input: | <ul style="list-style-type: none"> • 10 digital / 2 analog • 0 to 32 Volt readable • Fully surge protected • Vehicle diagnostics input |
| Output: | <ul style="list-style-type: none"> • Eight digital outputs • 500mA max. sink current per output • 50 volts max. switching voltage • Current limited and fully surge protected |
| GPS: | <ul style="list-style-type: none"> • 20 channels, continuous tracking • Includes antenna cut and short detection • Tracking sensitivity - 159 dBm • Acquisition sensitivity -149 dBm |
| Modern Communications: | <ul style="list-style-type: none"> • GSM (GPRS) or CDMA (1XRTT) |
| Serial Interface: | <ul style="list-style-type: none"> • RS-232 serial interface for expandability (mobile data terminal connection) |
| Vehicle Data-Bus Connectivity: | <ul style="list-style-type: none"> • Built-in light & heavy-duty |
| Data-Bus Protocol Support: | <ul style="list-style-type: none"> • SAE J1850/J1708 • ISO 9141/14230/15765 (OBDII/CAN/KWP) |
| Backup Battery Voltage Sensing: | <ul style="list-style-type: none"> • Monitors the condition of the backup battery source voltage |
| Antenna Connection: | <ul style="list-style-type: none"> • FAKRA polarized/color coded |
| Real-Time Clock: | <ul style="list-style-type: none"> • Accurate time kept for day/mo/year • Day of week • Second/minute/hour • Requires main or backup power source • Automatically set and adjusted with GPS clock • Optional second communication modem |
| Non-Volatile Data Storage: | <ul style="list-style-type: none"> • 2 megabytes |
| Expansion Daughter Board: | <ul style="list-style-type: none"> • Optional second communication modem |
| Over the Air Programming: | <ul style="list-style-type: none"> • Update of system firmware available |

| Physical | |
|---------------------|--|
| Enclosure: | <ul style="list-style-type: none"> • 135mm L x 83mm W x 29mm H (incl. mounting tabs) |
| Enclosure Material: | <ul style="list-style-type: none"> • Extruded anodized aluminum (non-sealed) |
| Temperature: | <ul style="list-style-type: none"> • -22F to +167F (-30C to +75C) (operating range) • <95 percent humidity, non-condensing • -40F to +185F (-40C to +85 C) (storage) |
| Standards: | <ul style="list-style-type: none"> • *EN50155, EN61373, EN50121, EN60950, N61000, EN55011, EN ONU reg.10, SAE J1455, MIL-STD-202, SAE J1113-41, MIL-STD 810C/D/E, ISO 7637 3a/3b/4/5, FCC, IC, CE |

| Electrical | |
|--------------------|--|
| Source: | <ul style="list-style-type: none"> • Main external battery, backup external battery |
| Voltage: | <ul style="list-style-type: none"> • 8 to 32 Volts DC • For use on 12 or 24 volt vehicles • Can withstand +60 volt load dump of <100mS & 1% duty cycle |
| Power Consumption: | <ul style="list-style-type: none"> • 65mA GSM, 85mA CDMA (average) |
| Low Power Mode: | <ul style="list-style-type: none"> • 500µA |