



PinPoint Plug & Play Products Unique Features and Benefits

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	Plug and Play Hardware	Benefit
Data Storage		
Standard Data Retention Period	Not limited to a set number of months	All of YOUR data is always available
Pricing		
Fixed Monthly Price with no surcharges for data overages	Yes	Cost certainty – no surprises
Installation		
Plug and Play Installation	Yes	Cost reduction on initial installation, and elimination of fees for removal and reinstallation
Cost of moving device to new truck after original truck reaches end of service life	\$0	Savings
Routing & Route Compliance		
Can define a route to be followed by the vehicle and record it on the map	Yes	Can use the system to optimize routes and cut kilometers to be driven
Can compare actual route travelled vs. planned route and spotlight discrepancies	Yes	Can monitor compliance with pre-defined routes and capture excess km driven.
Engine Diagnostics		
Engine diagnostics included in standard package	Yes	ECM output to identify engine problems early – reduces cost of repairs
Driver Safety / Accident Risk Reduction Features		
Ability to monitor hard cornering (left & right) in addition to jack rabbit starts, and hard braking based on accelerometer data	Yes	Driver safety; reduces tire wear
Accident Reconstruction – second by second data for last 72 seconds prior to collision (Q1/2012)	Yes	Validates fault in a collision
Driver Feedback mechanism to stop poor driving habits	Yes	Driver safety; reduces repair costs
Software Integration		
3rd Party Software Integration Capability	Yes – Software Development Kit included in base package at no extra charge	Can be used to eliminate manual keying of data into 3rd party software systems – e.g. billing, payroll, job costing



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	Plug and Play Hardware	Benefit
Reports and Rules		
Free Form Customized Report Creation	Yes	Can report on anything that the system can measure instead of being limited by library of reports
Free Form Customized Rule Creation	Yes	Can define policy if the system can measure instead of being limited by library of rules
Application of new rules / geofences to historical data	Yes	Can validate rules before they are put into effect – are they really needed?
Ability to present data from any report on dashboard	Yes	Ease of understanding of data; reduces time required to get value from the system
Ability to present data from any report in graphical format on recurring basis	Yes	Reduces the time you need to spend on the system to get value from it
Ability to generate reports that include costed information – e.g. Cost of idling	Yes	Makes the importance of information easy to understand
Data Generation, Transmission		
Snapshot Frequency	Every 200 sec. + Ignition On/Off & on: Turns Acceleration Deceleration Harsh Braking Hard Turns Rapid Acceleration	Real time data instead of waiting 6 minutes.
Transmission Frequency (i.e. PC screen refresh interval)	On event occurrence – events include acceleration, deceleration, turning, and sensor activity	Real time data instead of waiting 6 minutes
Method of Determination of Key Data Elements & Data Accuracy		
Method of Determination of Idling	Engine computer output – data accuracy is exact	Much higher data accuracy
Method of determining Speed	Based on input from on board diagnostic computer - i.e. It is exact	Much higher data accuracy



Compliance	RoHS compliant, lead free
Size	5 cm W x 2.5 cm H x 7.5 cm L
Weight	65 g
Housing	Black ABS, IP 42 resistant with rubber gasket and boot
Environmental Tests	Temperature tested between -40F to +185F / -40C to + 85C
32 Mb Non volatile Flash Memory Store	Main Data Memory: Records 4,650 miles (7,500 km) of city driving or 39,936 logs. Accident Data Memory: Buffer records 102 minutes of second-by-second valid data, or 6,122 logs. Last 72 records (1.2 minutes) are sent instantly on accelerometer triggered event.
Engine Management	Support for diagnostics on CAN (ISO 15765), Diagnostics on CAN for Diesel Engines (SAE J1939), Legacy OBD (SAE J1850 PWM.VPW, ISO 9141-2, ISO 14230 KWP2000). Adapter packs available for GM and heavy duty vehicles.
Operating Voltage	11V to 16V
Protection	"Green" efficient PWM regulated circuitry with overvoltage protection.
Recording Parameters	Curve Based Logging Algorithm gives fewer and more accurate data points.
Power Consumption	Sleep Mode Current: 7mA; Operating Current: 40-150mA (engine running)
Firmware	Wireless, over-the-air update Firmware can be customized for application-specific recording
Buzzer	Test Mode: Alert for system diagnostic testing of GPS and wireless connection. Parameter: User can set parameters to alert driver of excess speed, above a specified speed, excessive idling or over-revving. Engine based seatbelt violation (when available). Accelerometer triggered alerts: harsh braking, harsh acceleration and harsh corners.
Clock	Internal clock is set by initial GPS latch and counts seconds for time based activity during sleep mode including Heartbeat and Voltage Recording
Voltage Recording	Curve based voltage logging to detect weak batteries, failing alternators, failing starters.
Heartbeat	Device wakes out of sleep mode 1 hour after ignition off, then 2 hours after that, 4 hours after that and finally every 6 hours to send any buffered memory information, such as position, sensor and voltage data.
Antennas	Internal GPS and GSM antennas
Accelerometer	A LIS302DL from ST 3 axis accelerometer is provided for the low-voltage digital output linear MEMS housed in an LGA package. The LIS302DL has a user-selectable full scale of $\pm 2g$ and $\pm 8g$ and is capable of measuring accelerations with an output data rate of 100 Hz or 400 Hz.
Installation	Simple plug and play installation
Intelligent Ignition Detect	Non-engine based ignition detect based on voltage and movement. 2 wire installation. Perfect for older vehicles with no engine information and covert installation for asset recovery.