

Wireless Vehicle Monitor & Analyzer for Fleet Management Applications

Prova's Wireless Zigbee Vehicle Health Monitor & Analyzer (VHM) for Fleet Management is a customer installable plug-and-play wireless solution for vehicle fleet management. The VHM works with all cars and light-duty trucks manufactured since 1996 and also support hybrid and electric vehicles.

The VHM installs effortlessly into a vehicle's OBD-2 port and operates automatically without any user intervention required. The data collected by the VHM is uploaded automatically and wirelessly to the fleet management application for further analysis.

The VHM trip records and OBD-2 data can be streamed to Prova's VHM Fleet Manager application or any 3rd party application for analysis and reporting. The VHM is part of Prova's Fleet Genius Fleet Manager in a Box systems.



The Wireless Zigbee VHM features and functions:

- **No monthly cellular costs**
- **Supports gasoline, hybrid and electric vehicles**
- **Manages vehicle maintenance schedules**
- **Performs automated mileage tracking and updating**
- **Records day, date and time-of-day usage**
- **Monitors and manages fuel usage and**

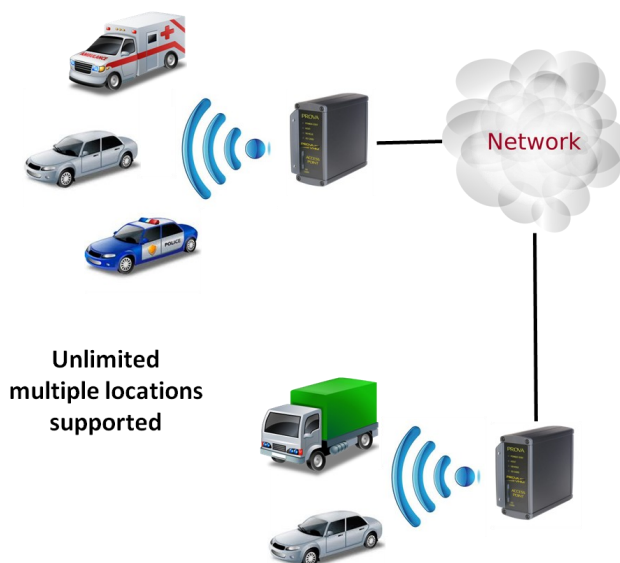


Works with **Fleet Manager in a Box**
www.fleet-genius.com

OPERATIONS

The VHM operates independently while installed in a vehicle. It collects vehicle operations data, fleet management data and diagnostic codes and stores it for later upload and can store up to 3,000 trip records between uploads.

1. Vehicle arrives back at depot location and communicates with Access Point wirelessly and automatically.
2. The VHM uploads its fleet management records to the Access Point.
3. Access Point stores and forwards the VHM records on to Prova's Fleet Manager application and/or to 3rd party management applications.



SPECIFICATIONS

- Power Requirements: --
12VDC @ 3.7mA typ (Idle - Quiescent Sleep)
12VDC @ 27mA avg typ (OBD Active - Logging)[1]
- Wireless: IEEE 802.15.4
Compliant : 2.4GHz :
250Kb/s Raw
60mW Transmit Power : 12
Channel : 2dBi Chip Antenna
- User Interface: Power/
Status LED -> Red/Yel/Grn
Buzzer -> Electro-Mech :
78dBA : 4KHz nom
- Environmental: -25C to
+70C temp ambient
20% to 90% RH, Non-
Condensing
- Firmware Upgrade Support: flashable program memory
- Enclosure: ABS plastic
- Enclosure dimensions: 1.8"W x 1.2"H x 1.4"D
- Weight: 1.3 oz

VHM FLEET MANAGER APPLICATION

PROVA Systems - Vehicle Management System

Application: Dashboard Reports Drivers Vehicles Company

Selection Criteria: From: 04/19/2009 To: 05/30/2009 Vehicle: -- ALL -- Class: -- ALL -- Driver: -- ALL -- GO

Select Report Type: Assigned Vehicle Report Diagnostic Trouble Code Report Emissions Readiness Report Trip by Date Report **Trip by Vehicle Report** Vehicle Usage Location Report

Generate Report...

Vehicle: Blue F150 F150 2002 FORD F150

Driver: 54545555 McPherson, John

Trip #	Location	Start Date	Start Time	Stop Date	Stop Time	Duration	Miles	MPG	Max Speed	Max Accel	Max Decel	Idle Time	DTC
Location: Arizona Division - 4 Item(s)													
1	Arizona Division	04/19/2009	07:02:00 A	04/19/2009	07:12:32 A	00:10:32	2	20.1	54	0.47	0.33	00:01:05	3
4	Arizona Division	04/19/2009	11:34:00 A	04/19/2009	11:43:03 A	00:09:03	2.1	19.5	98	0.65	0.28	00:00:33	0
Start Date: 04/20/2009 - 1 Item(s)													
Location: Calif Division - 3 Item(s)													
Location: Utah Division - 3 Item(s)													
3	Utah Division	04/19/2009	09:55:00 A	04/19/2009	10:01:35 A	00:06:35	1.9	18.9	67	0.78	0.21	00:00:53	0
Start Date: 04/20/2009 - 1 Item(s)													
3	Utah Division	04/20/2009	03:32:00 P	04/20/2009	03:39:58 P	00:07:58	3.5	18.9	67	0.75	1.1	00:00:25	1
Start Date: 04/21/2009 - 1 Item(s)													
2	Utah Division	04/21/2009	09:55:00 A	04/21/2009	09:56:24 A	00:01:24	0.034	20.1	45	0.7	0.24	00:00:15	0

Track fleet health by vehicle

Diagnostic engine codes displayed and interpreted

Scheduled Maintenance Alerts

The VHM Vehicle Manager collects, analyzes and reports on all information collected from the VHM Fleet Manager application. In addition to reporting on trip details by vehicle or driver it also highlights alerts to make managing the vehicle fleet easier.

The PC-based Windows application allows the manager to report on any number of data sets collected by the VHM. The system also permits manual entry of maintenance information to track scheduled maintenance activities.

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