



Motor Vehicle Asset Communicator (MVAC)

Wireless, Automated Control, Tracking & Monitoring of Vehicles

I.D. Systems offers an after-market connected vehicle solution with industry-leading capabilities. The MVAC is designed to install in minutes, provide core vehicle data to drive efficiencies in rental operations, and enables new business models such as customer self-service.

Features

- Integrated micro-computer with highly configurable firmware to achieve a wide range of asset management goals
- Industry's lowest-profile and most secure/invisible installation - on any certified make/model; Plugs easily and quickly (in under 2 minutes) to the vehicle's 16-pin OBDII connector (J1962), and secured behind the dash, including patented connector-locking mechanism and installation-time LEDs
- Automatically records and uploads/downloads key vehicle data (latitude/longitude, current fuel level, current odometer, mileage since last refuel, VIN, fault codes, etc.) via encrypted cellular data (based on low-bandwidth CoAP IoT protocol)
- Responds to encrypted cellular commands to perform vehicle actions (including lock, unlock, immobilize, honk horn, and/or flash lights)
- Automated, cellular re-programmability to ensure each device supports installation on any certified vehicle
- Compatible with most standard - and some non-standard - automotive bus protocols available on the J1962 port
- Low power operation under normal conditions; reduced power operation with vehicle off; 'critical mode' operation (if vehicle is unused for extended durations) prevents vehicle battery drain—yet supports BLE wakeup
- Includes BLE radio for 'out of cellular' communication, 3-axis accelerometer with gyroscope for impact monitoring and driver behavior analysis
- Enables real-time identification of fleet if lost or stolen via GPS and can monitor if fleet is driven outside of legally allowed locations

CONNECTED CAR
Drive Efficiencies
New Business Models
Powerful Insights





MVAC 3.0: The MVAC enables your company to digitize the rental car fleet, allowing operational efficiencies & new business models.

Connected for Wholistic Management

The MVAC is designed for large vehicle fleets with quick installation, removal, and a patented locking mechanism. The system provides key vehicle data (VIN, fuel, odometer, battery level, fault codes) and performs actions (such as lock/unlock) in a secure, encrypted format via cellular or Bluetooth communication modes.

The system interfaces with customer reservation, fleet management systems, and mobile applications to enable seamless integration. Ongoing device maintenance via over-the-air upgrades is reliable and easy to manage.

Specifications/Certifications

Dimensions	3.00" x 2.00" x 1.50"
Weather Resistance	Dustproof
Operating Temperature Range	-30° to +75° C
Vibration	SAE J1455
Input Voltage	9-16V DC (powered from OBD-II port)
MVAC Power Consumption	10 to 40 mA depending on mode
Back-up Battery Life	Unlimited (data stored in Flash memory)
Clock	Real-time (accurate to ±2 seconds per day while on location)
Diagnostics	Wireless equipment health monitoring 2 color, external LED indicators

RF Specifications

Cellular Radio	LTE (CAT 1 – B2, B4, B5, B12, B17); 3G (B2, B5) Bluetooth: BLE 4.2 (worldwide certification)
GPS	(GPS GLONASS support)
Antennas	Embedded fully inside device enclosure

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